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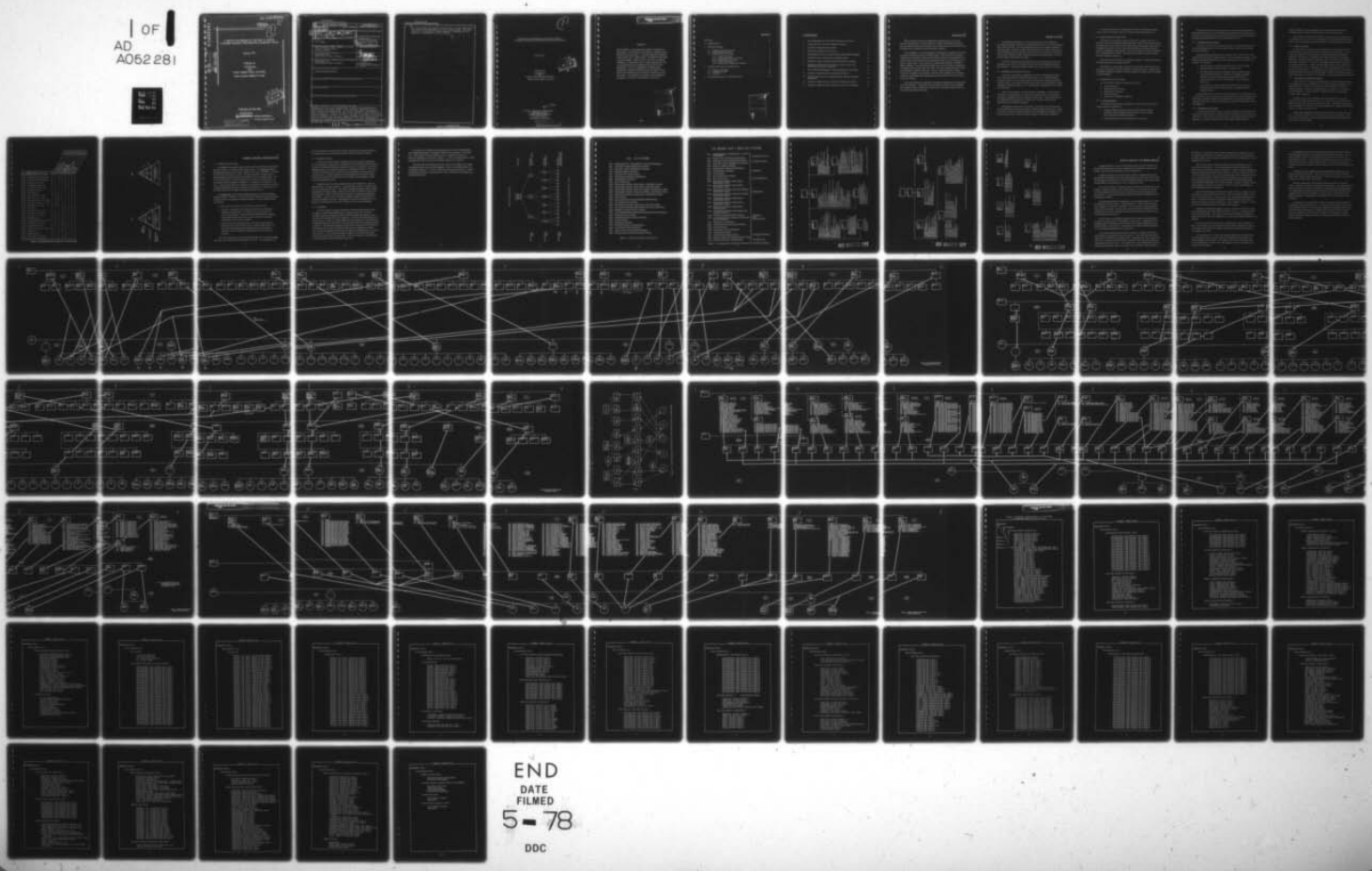

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A CONCEPT FOR MERGING EIC AND WBS TO ACHIEVE A COMMON-LANGUAGE CONFIGURATION ACCOUNTING SYSTEM

January 1973

Prepared for

COMSERVPAC
AND
PEARL HARBOR NAVAL SHIPYARD

Under Contract N00604-71-C-0431

Publication W2-D06-TN06

WESTERN DIVISION
ARINC RESEARCH CORPORATION
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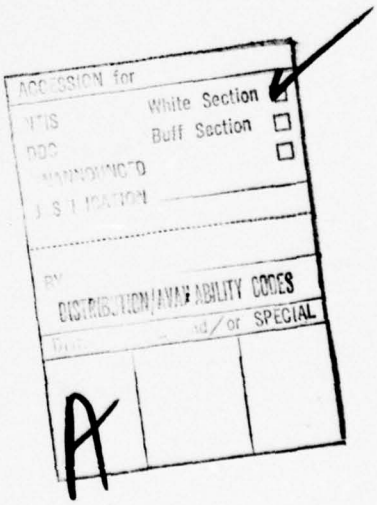
System definition is a prerequisite for effective management of maintenance, new construction, test programs, logistical support, and other ship-related needs. To provide integrated management of ship systems from "cradle to grave", the definition must utilize a common language. Neither the EIC or the WBS, as presently structured, are suitable for use as a common language since they are basically directed toward different elements in the Navy organization. However a configuration accounting system developed by merging the WBS and EIC with due regard for the needs of both maintenance and construction managers can serve that purpose. The feasibility of creating a common language by merging the two systems is demonstrated in this report.



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1
INTRODUCTION

The two principal methods of configuration accounting in the Navy are the Equipment Identification Code (EIC) and Bureau of Ships Consolidated Index (BSCI). Each accounting method is used by different Navy organizations, and their parallel use contributes to the complexity of ship maintenance programs.

The desirability of a common language for configuration accounting is expressed in the Ship Overhaul Improvement Program Manual. This manual was developed to "identify those maintenance problems whose specific solutions would significantly contribute to improved management of the maintenance dollar and provide optimum overhauls of complex ships." Item 414 therein, "Develop and Implement a NAVSHIPS 'Single Language'," cites the problems arising from the use of different configuration accounting systems during the life of the ship. The Work Breakdown Structure (WBS) was developed in response to this task. However, because the WBS is oriented toward new construction and conversion, it has not been accepted by the maintenance community, particularly those organizational elements involved in the areas of electronics and ordnance.

This report discusses an approach to meeting the configuration accounting needs of all Navy elements – merging the EIC and WBS into the desired common language. The feasibility of such an approach is demonstrated, and detailed examples given of how the merged system would work.

2
PRESENT SYSTEMS

The Equipment Identification Code is the principal means of configuration accounting for reported maintenance actions/deferrals under the Navy 3-M Maintenance Data Collection System. The Work Breakdown Structure is a proposed configuration accounting system intended to combine the functions served by the EIC; the Bureau of Ships Consolidated Index of Drawings, Materials and Services Related to Construction and Conversion (BSCI); and Ships Design and Material, group 9000 Series, of the Navy Standard Subject Identification Code (SSIC).

The WBS is oriented toward the needs of the new-construction and conversion community, while the EIC is oriented toward the needs of the maintenance and overhaul community. The present structure of these two systems will now be discussed.

2.1 EQUIPMENT IDENTIFICATION CODE

The EIC is a four-character alphanumeric code for identifying ship configurations. The initial character identifies major systems (e.g., Outfit/Furnishings, Propulsion, Sonar, etc.); the second character denotes major subsystems (Heating, Fuel Oil Service, etc.) within each major system; and the last two characters identify equipment or equipment groups (e.g., main feed pumps, distilling plant, etc.) within each subsystem.

Under the EIC structure, 28 major systems are identified. Certain of these systems (e.g., Hull Structure) are common to all ships; others (e.g., Propulsion, Main Steam, Mechanical Drive) are unique to specific types. The 28 major systems are subdivided into approximately 350 subsystems, and these subsystems into approximately 10,000 equipment groups.

System breakout under the EIC structure is essentially on the following basis: 1) hull, mechanical, and electrical systems according to functional element or equipment type; 2) electronic systems according to "AN" designators and equipment modification number; and 3) ordnance systems according to "Mark-Mod" designators.

The EIC also provides one non-equipment category for maintenance support services, such as sea trials, tests, shore systems, planned maintenance, etc.

2.2 WORK BREAKDOWN STRUCTURE

The WBS is a three-character numeric code which, similarly to the EIC, is based on a three-level breakout of ship configuration. Under the WBS system the ship is broken out at the first level into seven major equipment categories: Hull Structure, Propulsion Plant, Electric Plant, Command and Surveillance, Auxiliary Systems, Outfit and Furnishings, and Armament. Each of these categories is further subdivided into two additional levels of detail. The third level of breakout consists of approximately 260 equipment categories.

The WBS also provides three non-equipment categories: General Requirements, Integration/Engineering, and Ship Assembly.

The addition of a fourth digit to the basic three-character WBS code increases the number of equipment categories available to approximately 2300. Approximately 400 additional equipment categories would be available if the third level were expanded to its full capability.

2.3 COMPARISON OF EIC AND WBS

The EIC and WBS will now be compared in terms of:

a. Levels of breakout
b. Exhaustiveness of coverage
c. Discreteness of coverage
d. Degree of breakout
e. Universality of equipment categories

2.3.1 Levels of Breakout

The objectives of maintenance management require that the data collection system provide the capability for:

a. Grouping equipments at more than one level of detail, to permit budgeting, overhaul planning, problem analysis, and the various other maintenance management functions.

b. Grouping equipments by actual application as well as type.

The objectives of ship construction/conversion management require that the data collection system provide the capability of grouping equipments and tasks at more than one level of detail to permit cost and weight estimating and reporting, progress reporting, drawing numbering, and work scheduling and control.

2.3.2 Exhaustiveness of Coverage

For both the EIC and WBS, all ship equipments are covered within the framework of the coding structure (with the exception of boats, which are not currently covered by the WBS).

The principal dissimilarity in the two systems is that, in some cases, equipment items are grouped in a different manner. This is illustrated by Figure 1, which shows the interrelationships between the two coding systems at their first level of breakout. As examples:

a. The EIC defines six types of propulsion system, whereas the WBS defines propulsion, whatever type, as a single system.

b. The WBS groups all electronic equipment under the single category "Command and Surveillance", while the EIC establishes separate categories for each major Command and Surveillance system (such as Navigation, Interior Communications, Countermeasures, and others).

c. In the WBS, Fire Control Systems are included with the Command and Surveillance System, while in EIC they are included with the Ordnance System.

Similar differences prevail at the second and third levels of breakout; however, at each of these levels the coverage of a ship configuration is equally complete under both systems in that essentially all ship equipments can be categorized within the framework of the codes. Both systems can also be expanded to include new systems and equipments.

2.3.3 Discreteness of Coverage

Both the EIC and WBS are based on a logical breakout in which each item at a given level is a distinct entity, separate and non-overlapping with other items at the same level. Hence, both systems are intended as nonredundant indexes of ship configurations. It should be noted, however, that in either coding method it is

extremely difficult to avoid redundancy since certain shipboard equipments or furnishings might be categorized under different codes by different users.

The problems associated with variability in interpretation when assigning codes are essentially the same for both the WBS and the EIC. Application of either coding system requires that equipment groups be defined in terms of their limits and extents.

2.3.4 Degree of Breakout

The EIC provides a breakout of ship configuration into approximately 10,000 equipment items or groups at the third level of indenture (see Figure 2). By comparison, the third level of WBS breakout includes approximately 260 equipment categories. The difference is primarily due to the fact that under the WBS logic, breakout is essentially on the basis of function; while in the EIC system, breakout is on the basis of function, type, and model of equipment (particularly in the areas of electronics and ordnance). Further, the WBS coding scheme, which is limited to the ten numeric digits, acts as a constraint on the degree of breakout possible for the more complex ship systems. The alphanumeric EIC coding scheme is less constraining then the WBS because the EIC has more digits available, and in addition allocates a four-digit number at the third level of breakout versus the three-digit number of WBS.

2.3.5 Universality of Equipment Categories

"Universality" is defined for present purposes as meaning the degree to which the equipment categories established by the two coding systems are applicable to all ships of the Fleet. "Degree of universality" therefore connotes the amount of tailoring necessary in applying an indexing system to a given ship. On the basis of the above definition, a "totally universal" coding structure is one wherein all categories apply to all ships.

The WBS system, being essentially a functional type breakout, is a more universal type of coding system than is the EIC. For example, at the first level of WBS breakout the seven ship systems apply to all ships. Conversely, of the 28 major systems identified at the first level of breakout under the EIC, between half and three quarters may apply to any given ship.

Similar reasoning applies at the second and third levels of EIC and WBS breakout. For example, using the AO-143 class of ship as a frame of reference, about three-quarters of the Level 2 items of the WBS apply, while about one-third of the Level 2 items of the EIC apply.

EQUIPMENT IDENTIFICATION CODE		WORK BREAKDOWN STRUCTURE						
		100 HULL STRUCTURE	200 PROPULSION PLANT	300 ELECTRIC PLANT	400 COMMAND AND SURVEILLANCE	500 AUXILIARY SYSTEMS	600 OUTFITTING	700 WEAPONS
1000	ADMIN., HAB., OUTFIT, & FURN.						X	
3000	ELECTRICAL POWER GENERATION			X				
4000	ELECTRICAL POWER DISTRIBUTION			X				
5000	SURFACE MISSILE SYSTEMS				X			X
7000	AVIATION SHIP INSTALLATION					X		
8000	SPECIALIZED ORDNANCE EQUIP.							X
9000	EXPENDABLE ORDNANCE							X
A000	HULL STRUCTURE	X						
B000	PROP, MN DIES, MECH. DRIVE		X					
C000	PROP, MN DIES, ELEC. DRIVE		X					
D000	PROP, MN-GAS TURB., MECH. DRIVE		X					
E000	PROP, MN-GAS TURB., ELEC. DRIVE		X					
F000	PROP, MN-ST, MECH. DRIVE		X					
G000	GUN SYSTEMS				X			X
H000	NAVAL INTEL. PROC. SYSTEMS				X			
J000	ASW SYSTEMS/UW. SYSTEMS				X			X
K000	PROP, MN-ST, ELEC. DRIVE		X					
L000	NAVIGATION SYSTEMS				X			
M000	INTERIOR COMMUNICATION SYSTEMS				X			
N000	COUNTERMEASURE SYSTEMS				X			
P000	RADAR AND IFF SYSTEMS				X			
Q000	COMMUNICATION AND DATA SYSTEMS				X			
R000	SONAR SYSTEMS				X			
T000	AUXILIARY SYSTEMS					X		
W000	ELECTRONIC TEST EQUIPMENT				X			
Y000	BOATS, STOWAGE AND HANDLING							

Figure 1. Interrelationship of EIC and WBS at First Level of Breakout

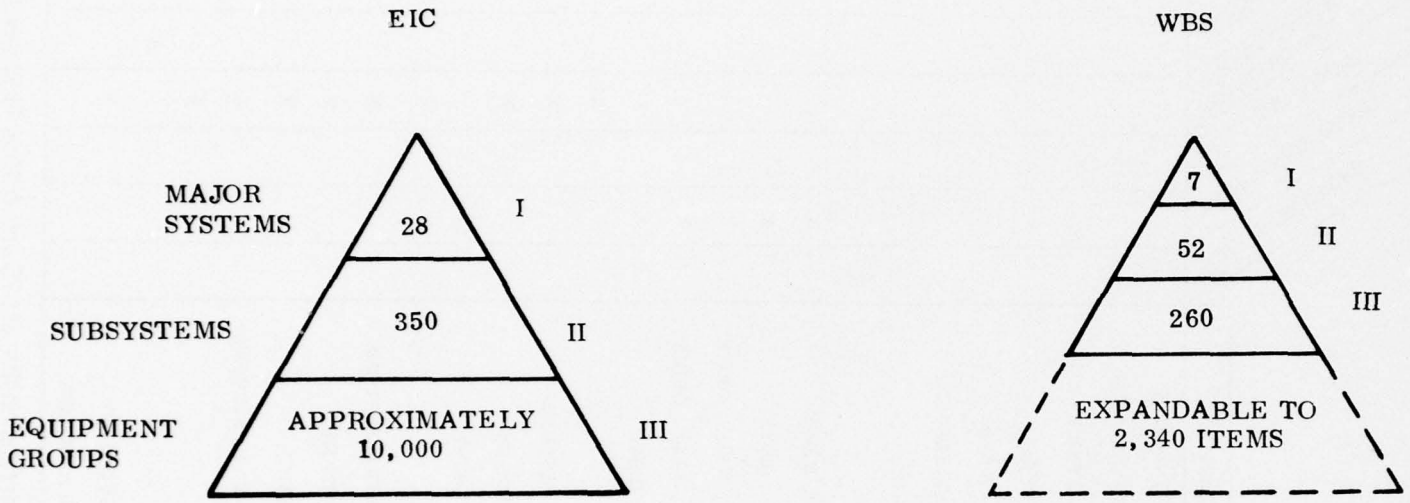


Figure 2. Comparison of EIC and WBS in Degree of Breakout

3
COMMON LANGUAGE CONSIDERATIONS

3.1 STRUCTURE AND CODING

A configuration accounting system has two attributes that define the components within the system – its structure and its coding scheme. The structure defines the groupings and divisions of the various categories of systems, subsystems, and equipment that collectively make up a ship. The basic groundrules and logic used in developing this structure determines the usefulness of the accounting system. Both the EIC and WBS have a top-down breakout type of structure, characterized by an increasingly detailed breakdown of equipment. This approach is illustrated in Figure 3. Note from this figure that the ship can be completely described at any level, by selecting all applicable systems or equipment; and that each level of breakout can be described as the sum of all applicable equipment directly below it.

The coding applied to the various groupings provides a means of identifying specific systems or equipment. This permits efficient automatic data processing and provides a means of recognizing the higher groupings to which an individual equipment belongs.

Two approaches can be taken in structuring and coding a system:

a. Define the coding scheme and assign all equipment into groupings as defined by the coding logic. The WBS and, to a lesser extent, the EIC use this approach. This method has the disadvantage of requiring some equipments and/or systems to be force-fitted into categories only because no other code is available.

b. Define the structure and then develop a code that permits automatic data processing. This results in a more complex coding system, but does allow more flexibility in grouping similar items and assures that items of equal complexity are grouped on the same level of the breakout.

Some of the problems associated with both WBS and EIC as a common language trace back to the coding scheme for defining the structure. The anticipated use of

EIC for maintenance accounting and the WBS for ship construction placed limitations on both that prevent them from being useful as a generally applicable language.

3.2 COMBINED EIC/WBS

If it is presumed that equipment groupings of the EIC provide the information that the maintenance manager needs, and that those of the WBS provide the information that the new construction/conversion manager needs, then one approach to a common-language system is to investigate a merger or a combination of the two. The needs of not only the manager but also the analyst must be considered in the structuring of a merged system. If a single structure can be developed that meets all user requirements, then an arbitrary coding system can be assigned to the groupings to permit machine processing of the data.

Toward this end, let us first consider the EIC at the system level. There we find 28 systems, as shown in Figure 4. In studying these systems, we find that many of them are generally the same. For example, six different codes are used to define the propulsion systems available, and five codes are used to define the weapons suite aboard the ship. Figure 5 shows the same 28 systems rearranged and grouped into like systems. There are now seven major groupings, similar to the seven major equipment groupings of the WBS. This suggests a method for combining the two configuration accounting methods to provide a single system of general usefulness.

3.3 TECHNIQUE

To retain maximum usefulness of past data collection efforts while providing the ability to collect/analyze/group data in a manner useful to all, it would be desirable to generally maintain the present internal structure and definition of subsystems and of elements within these subsystems. The first step toward that end is to analyze the EIC and WBS to determine differences and similarities in their structures. As discussed previously, the first-level EIC and WBS systems can be grouped as shown in Figure 5. This similarity suggests a merged system having a first level similar to that of WBS and the second level similar to that of EIC, as illustrated in Figure 6. Note here that for ordnance and electronics the subsystem "building blocks" are moved down one level. This is further illustrated in Figure 7, which shows the ordnance system broken down to the first three levels. The present degree of detail provided by the EIC could be retained by adding a fourth level.

One concept of a configuration accounting system is to retain like groupings – those equipment groupings of comparable complexity and importance – at the same level. This approach facilitates handling of data. Examples of second- and third-level groupings are presented in Figure 8. It will be noted that with this concept, groupings on the same level are more consistent than they are in the EIC.

This quick look at similarities shows that, at least on the upper level, enough commonality exists to permit a single language. However the combined system, as exemplified in Figures 6, 7, and 8, is still heavily oriented toward the EIC. Further investigation is necessary to determine if the second- and third-level breakdowns are suitable for WBS users.

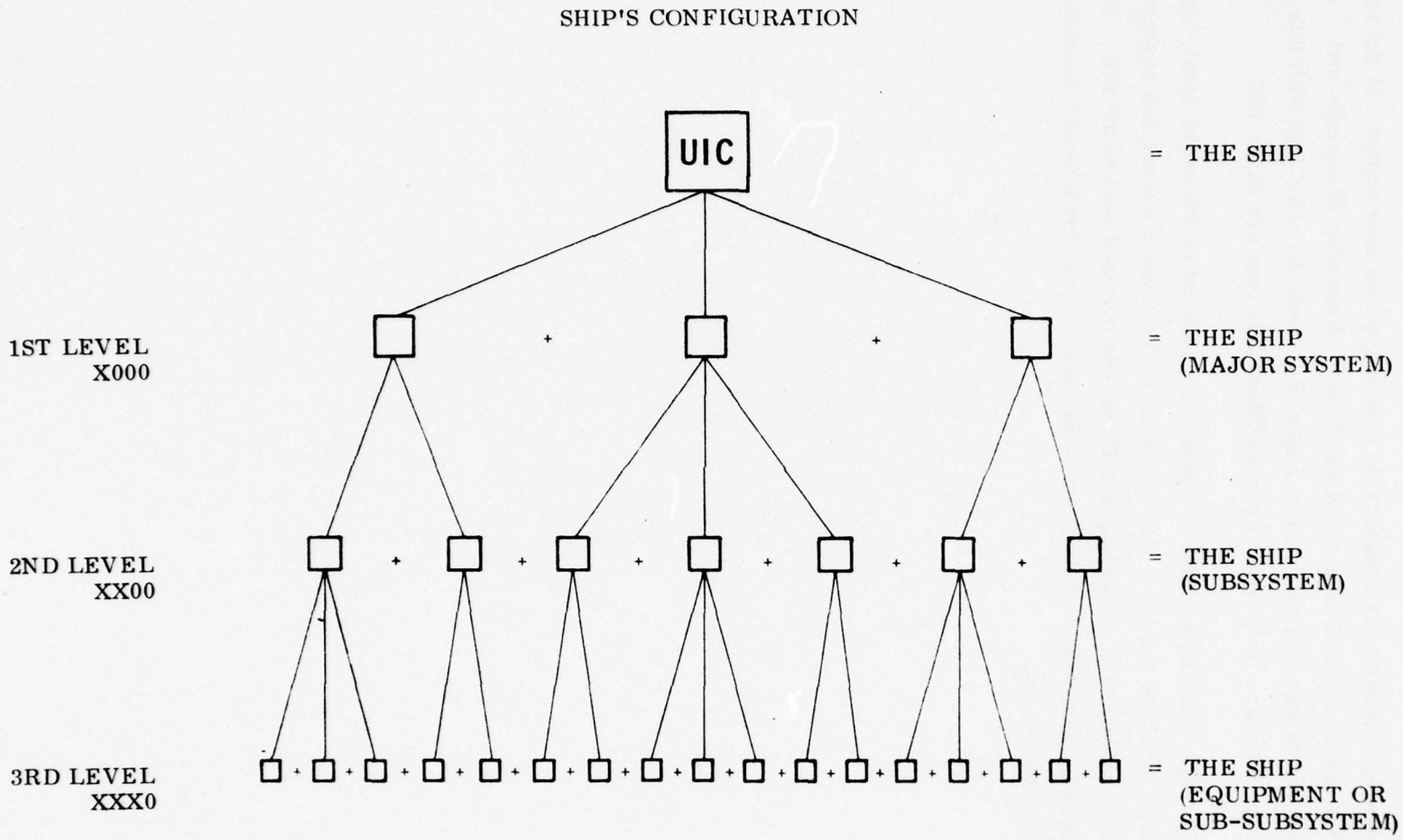


Figure 3. Top-Down Breakout Structure Concept

EIC - 28 SYSTEMS

1000	ADMINISTRATION, HABITABILITY, OUTFIT/FURNISHINGS
3000	ELECTRIC POWER GENERATION SYSTEMS
4000	ELECTRIC POWER DISTRIBUTION SYSTEMS
5000	SURFACE MISSILE SYSTEMS
7000	AVIATION SHIP INSTALLATION
8000	SPECIALIZED ORDNANCE EQUIPMENT
9000	EXPENDABLE ORDNANCE
A000	HULL STRUCTURE
B000	PROPULSION SYSTEM, MAIN DIESEL, MECHANICAL DRIVE
C000	PROPULSION SYSTEM, MAIN DIESEL, ELECTRIC DRIVE
D000	PROPULSION SYSTEM, MAIN-GAS TURBINE, MECHANICAL DRIVE
E000	PROPULSION SYSTEM, MAIN-GAS TURBINE, ELECTRICAL DRIVE
F000	PROPULSION SYSTEM, MAIN-STEAM, MECHANICAL DRIVE
G000	GUN SYSTEMS
H000	NAVAL INTELLIGENCE PROCESSING SYSTEMS (NIPS)
J000	ASW SYSTEMS/UW SYSTEMS
K000	PROPULSION SYSTEM, MAIN-STEAM, ELECTRIC DRIVE
L000	NAVIGATION SYSTEMS (ELECTRONIC AND NON-ELECTRONIC)
M000	INTERIOR COMMUNICATION SYSTEMS
N000	COUNTERMEASURE SYSTEMS (ELECTRONIC/NON-ELECTRONIC)
P000	RADAR AND IFF SYSTEMS
Q000	COMMUNICATIONS AND DATA SYSTEMS
R000	SONAR SYSTEMS
T000	AUXILIARY SYSTEMS
U000	SUPPORT SERVICES, MAINTENANCE
W000	ELECTRONIC TEST EQUIPMENT
Y000	BOATS, BOAT STOWAGE AND HANDLING
Z000	SPECIAL/MISCELLANEOUS/UNCODED ITEMS

Figure 4. First-Level Breakout of EIC Systems

EIC MERGED INTO 7 WBS-LIKE SYSTEMS

1000	ADMINISTRATION, HABITABILITY, OUTFIT/ FURNISHINGS	ADMIN/HAB/OUTFIT
Y000	BOATS, BOAT STOWAGE AND HANDLING	
3000	ELECTRIC POWER GENERATION SYSTEMS	ELECTRIC POWER
4000	ELECTRIC POWER DISTRIBUTION SYSTEMS	
5000	SURFACE MISSILE SYSTEMS	ORDNANCE
8000	SPECIALIZED ORDNANCE EQUIPMENT	
9000	EXPENDABLE ORDNANCE	
G000	GUN SYSTEMS	
J000	ASW SYSTEMS/UW SYSTEMS	
A000	HULL STRUCTURE	HULL STRUCTURE
B000	PROPULSION SYSTEM, MAIN DIESEL, MECHANICAL DRIVE	PROPULSION
C000	PROPULSION SYSTEM, MAIN DIESEL, ELECTRICAL DRIVE	
D000	PROPULSION SYSTEM, MAIN-GAS TURBINE, MECHANICAL DRIVE	
E000	PROPULSION SYSTEM, MAIN-GAS TURBINE, ELECTRICAL DRIVE	
F000	PROPULSION SYSTEM, MAIN-STEAM, MECHANICAL DRIVE	
K000	PROPULSION SYSTEM, MAIN-STEAM, ELECTRICAL DRIVE	
H000	NAVAL INTELLIGENCE PROCESSING SYSTEMS (NIPS)	COMMAND AND SURVEILLANCE
L000	NAVIGATION SYSTEMS (ELECTRONIC AND NON-ELECTRONIC)	
M000	INTERIOR COMMUNICATION SYSTEMS	
N000	COUNTERMEASURE SYSTEMS ELECTRONIC/ NON-ELECTRONIC	
P000	RADAR AND IFF SYSTEMS	
Q000	COMMUNICATIONS AND DATA SYSTEMS	
R000	SONAR SYSTEMS	
W000	ELECTRONIC TEST EQUIPMENT	
T000	AUXILIARY SYSTEMS	AUXILIARY SYSTEMS
7000	AVIATION SHIP INSTALLATION	
Z000	SPECIAL/MISCELLANEOUS/UNCODED ITEMS	
U000	SUPPORT SERVICES, MAINTENANCE	NONSHIP ITEM

Figure 5. Rearrangement of EIC First-Level Systems into Common Groupings

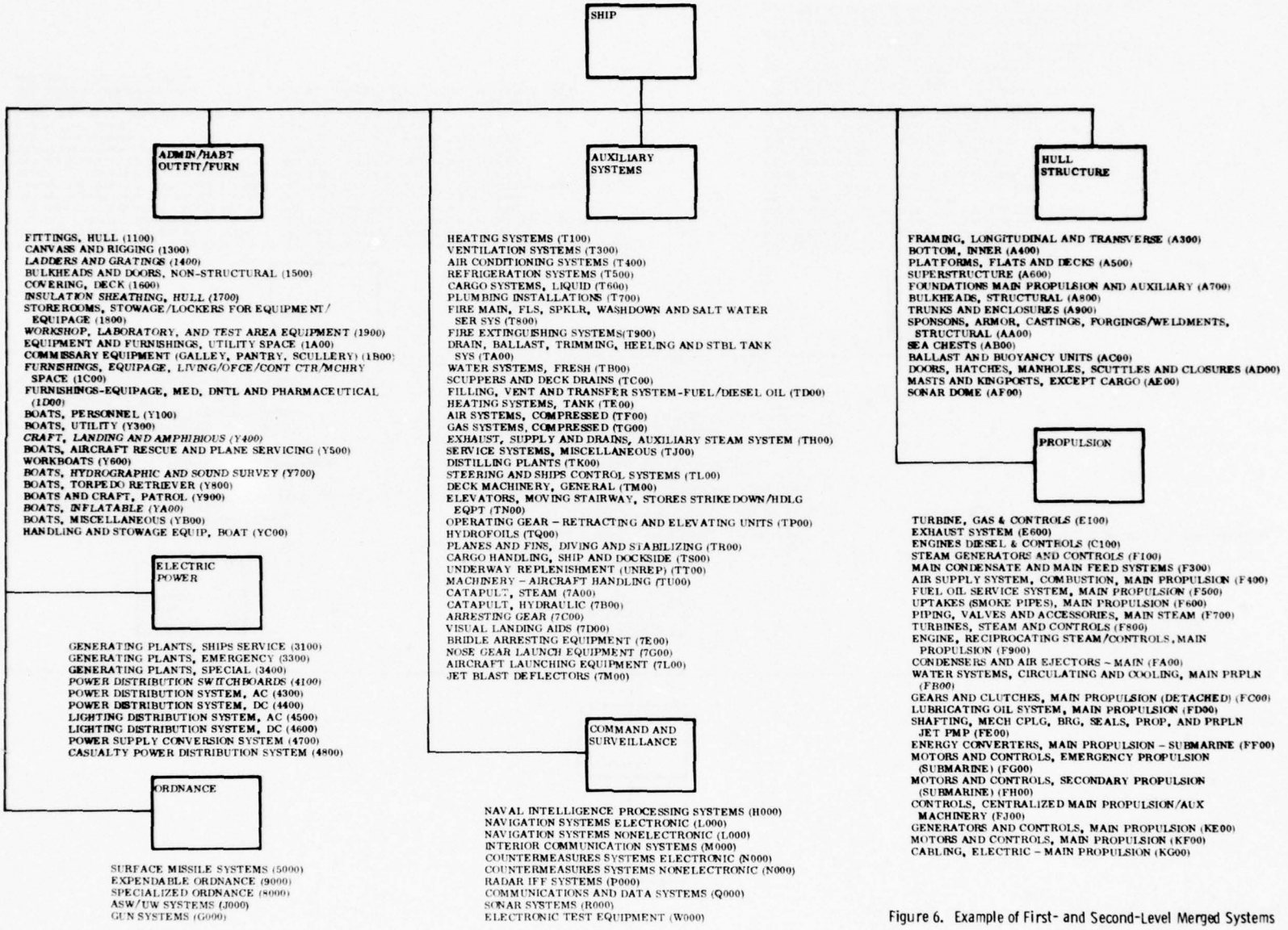


Figure 6. Example of First- and Second-Level Merged Systems

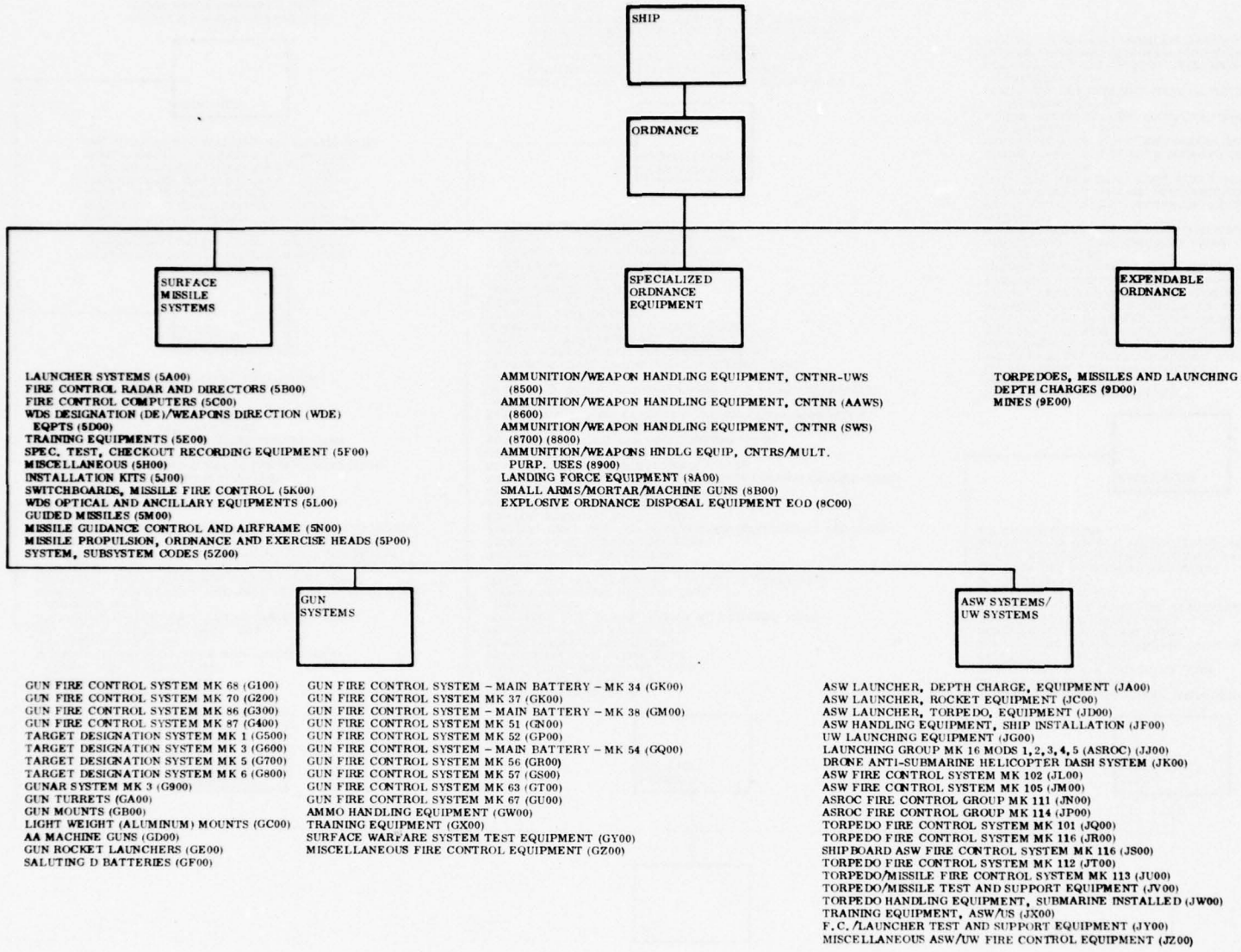


Figure 7. Example of Ordnance System Showing Three Levels of Breakout

1100 FITTINGS, HULL

1101 LASHING, MOORING AND TOWING FITTINGS
1103 SAFETY AND GUARD FITTINGS
1104 STUFFING TUBES
1105 STOWAGE BOXES
1106 CATHODIC PROTECTION SYSTEM
1107 PLATFORMS
1108 MISCELLANEOUS FITTINGS

4300 POWER *DISTRIBUTION* SYSTEM, AC

4301 PANEL, POWER, CIRCUIT BREAKER
4303 PANEL, POWER, FUSED
4304 TRANSFORMER, DISTRIBUTION
4305 OUTLET, POWER
4306 SHORE POWER HOOKUP SYSTEM
4307 SUBMERSIBLE CABLING SYSTEM (SUBMARINE)
4308 GROUND DETECTION EQUIPMENT
4309 BUS TRANSFER, AUTOMATIC
430A BUS TRANSFER, MANUAL
430B CABLING, DISTRIBUTION
430C CABLING SYSTEM, SHIP ALONGSIDE (TENDERS)

R000 SONAR SYSTEMS

R100 SONAR SYSTEMS, SEARCH
R300 SONAR SYSTEMS, VARIABLE DEPTH
R400 SONAR SYSTEMS, CLASSIFICATION
R500 SONAR SYSTEMS, NAVIGATION
R600 SONAR, UNDERWATER COMMUNICATION
R700 SONAR SYSTEM, BATHYTHERMOGRAPH
R800 SONAR SYSTEMS, SPECIAL PURPOSE
R900 SONAR SYSTEMS, PASSIVE
RA00 AUXILIARY DEVICES, SONAR

C800 LUBE OIL SERVICE SYSTEM (DETACHED)

C801 SERVICE GROUP
C803 SAMPLING/PRIMING GROUP
C804 TRANSFER AND/OR STANDBY GROUP
C805 PURIFICATION AND CLEANING GROUP

G000 GUN SYSTEMS

G100 GUN FIRE CONTROL SYSTEM MK 68
G200 GUN FIRE CONTROL SYSTEM MK 70
G300 GUN FIRE CONTROL SYSTEM MK 86
G400 GUN FIRE CONTROL SYSTEM MK 87
G500 TARGET DESIGNATION SYSTEM MK 1
G600 TARGET DESIGNATION SYSTEM MK 3
G700 TARGET DESIGNATION SYSTEM MK 5
G800 TARGET DESIGNATION SYSTEM MK 6
G900 GUNAR SYSTEM MK 3
GA00 *GUN TURRETS*
GB00 GUN MOUNTS
GC00 LIGHT WEIGHT (ALUMINUM) MOUNTS
GD00 AA MACHINE GUNS
GE00 GUN ROCKET LAUNCHERS
GF00 SALUTING BATTERIES
GK00 GUN FIRE CONTROL SYSTEM (MAIN BATTERY) MK 34
GL00 *GUN FIRE CONTROL SYSTEM MK 37*
GM00 GUN FIRE CONTROL SYSTEM (MAIN BATTERY) MK 38
GN00 GUN FIRE CONTROL SYSTEM MK 51
GP00 GUN FIRE CONTROL SYSTEM MK 52
GQ00 GUN FIRE CONTROL SYSTEM (MAIN BATTERY) MK 54
GR00 GUN FIRE CONTROL SYSTEM MK 56
GS00 GUN FIRE CONTROL SYSTEM MK 57
GT00 *GUN FIRE CONTROL MK 63*
GU00 GUN FIRE CONTROL SYSTEM MK 67
GW00 AMMO HANDLING EQUIPMENT
GX00 TRAINING EQUIPMENT
GY00 SURFACE WARFARE SYSTEM TEST EQUIPMENT
GZ00 MISCELLANEOUS FIRE CONTROL EQUIPMENT

TD00 FILLING, VENT AND TRANSFER SYSTEM-FUEL/ *DIESEL OIL*

TD01 FILLING SYSTEM, DIESEL OIL
TD03 VENTING SYSTEM, DIESEL OIL
TD04 PIPING AND ACCESSORIES, DIESEL OIL TRANSFER
TD05 PUMPS, TRANSFER, DIESEL OIL
TD06 FILLING SYSTEM, FUEL OIL
TD07 VENTING SYSTEM, FUEL OIL
TD08 PIPING AND ACCESSORIES, FUEL OIL TRANSFER
TD09 PUMPS, TRANSFER, FUEL OIL
TD0A FILLING SYSTEM, FUEL OIL
TD0B TRANSFER SYSTEM, FUEL OIL

AD00 DOORS, HATCHES, MANHOLES, SCUTTLES AND CLOSURES

AD01 DOORS
AD03 STERN GATES
AD04 RAMPS
AD05 HATCHES
AD06 PORTS, MANHOLES AND SCUTTLES

Figure 8. Sampling of Third-Level Groups From Each First-Level Group Showing Items of Similar Complexity

4
DETAILED ANALYSIS OF MERGED WBS/EIC

A merged WBS/EIC system is best illustrated in the context of a detailed comparison of the WBS and EIC systems, showing how their similarities make a merger feasible, and how their dissimilarities can be compensated for.

A detailed comparison of the WBS and EIC systems is difficult because of the great number of individual items in each (approximately 10,000 for EIC, 250 for WBS). The best approach is therefore to start with a relatively simple system and investigate its similarities, and then progress to more complicated systems.

Next, for this analysis, a further description of limits and extents of the various listings is needed than appears in the two basic indexes. For the EIC, the old (pre-1971) seven-digit index was used, since it is documented in greater detail than the present index. For the WBS, the proposed index with fourth-level expansion and text description was utilized.

The first system chosen for comparison is the one defined in the EIC as "A000 Hull Structure" and in the WBS as "100 Hull Structure". Figure 9 shows the three-level breakdown for both the EIC and WBS. Arrows connect the common groupings between the EIC and WBS. Note that some of the commonality is present only at the second level, some only at the third level, and some between the second level of one code and third level of the other.

In a few instances a particular equipment may be grouped with certain equipments in one code and with other equipments in another code. In addition there are groupings unique to individual codes, generally for specialized equipments such as floating drydocks and catamarans. Any coding system requires arbitrary decisions as to the assigned grouping for these special cases.

On the basis of the similarities shown in Figure 9, a merged system for the Hull Structure was developed as shown in Figure 10. The arrows show the relationship of the EIC and WBS to the merged system. It should be noted that no attempt was made here to evaluate either EIC or WBS to determine if the degree of breakout was appropriate for the users' needs. For example there is some feeling that, in the EIC code A400-Inner Bottom, there is no need for three codes A401, A403, and A404 at

the third level; a single code would probably be sufficient for management purposes. The primary consideration in deriving the merged structure was to ensure that both the WBS- and EIC-oriented managers would be able to retrieve information in the same groupings as they now do.

The arrows in Figure 10 primarily show the interrelationships between the second level of WBS and EIC. The relationship between the two systems can be further seen by examining the third-level breakout. Consider the Shell and Supporting Structure portion of the merged system in Figure 11. This is covered in the WBS by code 110 and its breakout, and in the EIC by codes A100, A300, A400 and their breakouts. It can be noted that, should the EIC-oriented analyst desire to collect data concerning A101-Plating, he would use both the group called Shell Plating and the group called Shell Appendages in the merged structure. Similarly, the WBS-oriented analyst wishing to collect data for group 111 would use both the Shell Plating and Shell Planking groups for the merged set.

The merged grouping of seven top-level systems results in a change in level for some items as compared with their EIC level. This is illustrated in Figure 12 for part of the Ordnance System. Again, the EIC, WBS, and merged structures are presented. It should be noted that the equipment listings shown in the EIC would be moved from the third level to the fourth level. This is indicated in Table 1, in which the degree of indentation defines the various levels of breakout.

In addition to equipment groupings, it would be necessary to add to the merged system non-equipment accounts similar to WBS 701, 702, etc., to suit the needs of the construction manager. The needs of the maintenance manager and analyst for ordnance data at the Mark-Mod equipment level can be met by using the fourth level of breakout.

An example of an electronics system in merged form is shown in Figure 13. Here, as for ordnance, the non-equipment accounts would be added for the construction manager while fourth-level breakout would provide the maintenance personnel with equipment level data.

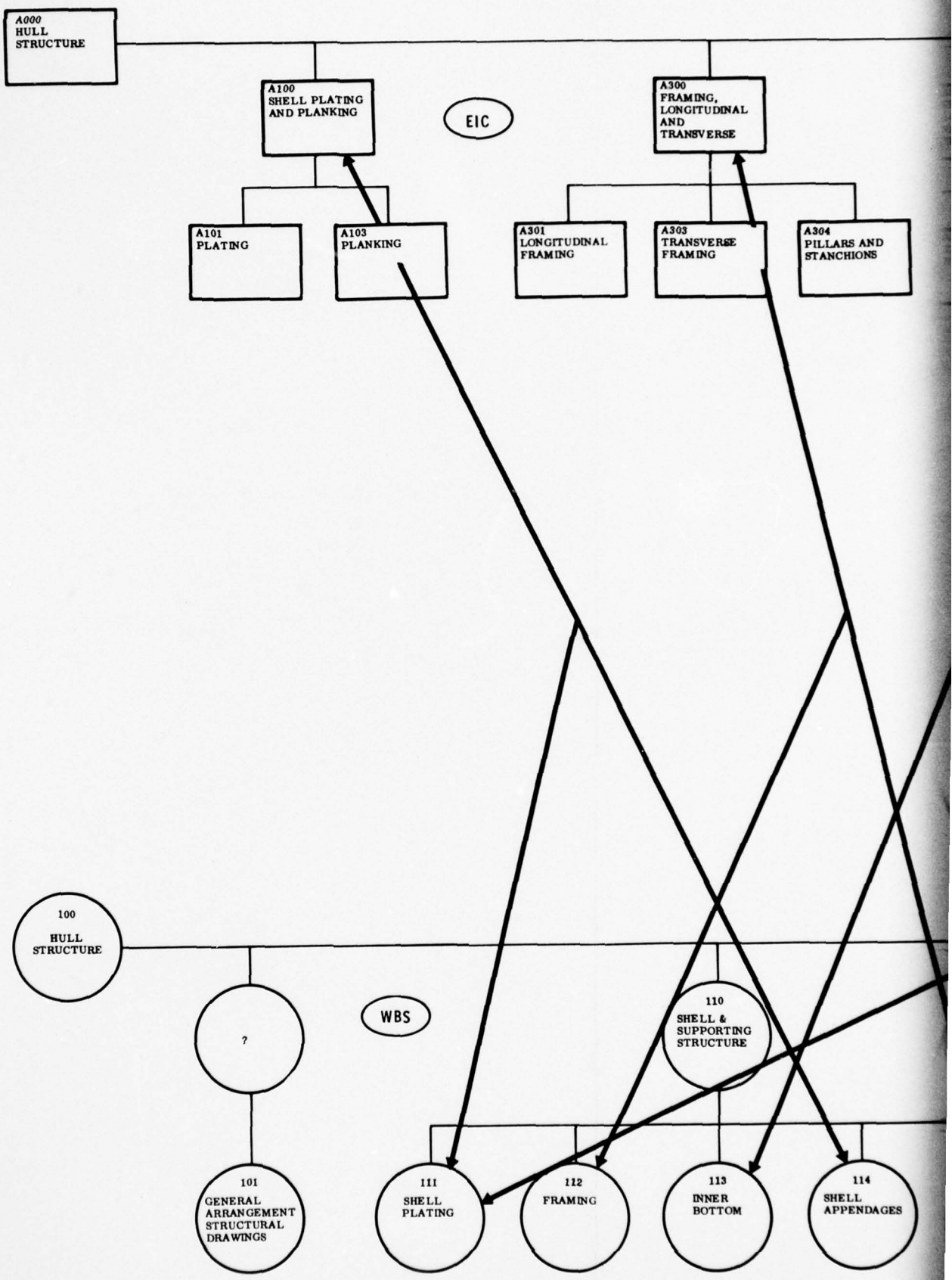
From the analysis, it is clear that a merged configuration accounting system can be developed to meet the needs of both the maintenance manager and the new construction/conversion manager. The examples shown are not necessarily those that most efficiently meet these needs – their purpose is solely to demonstrate the practicality of the merger.

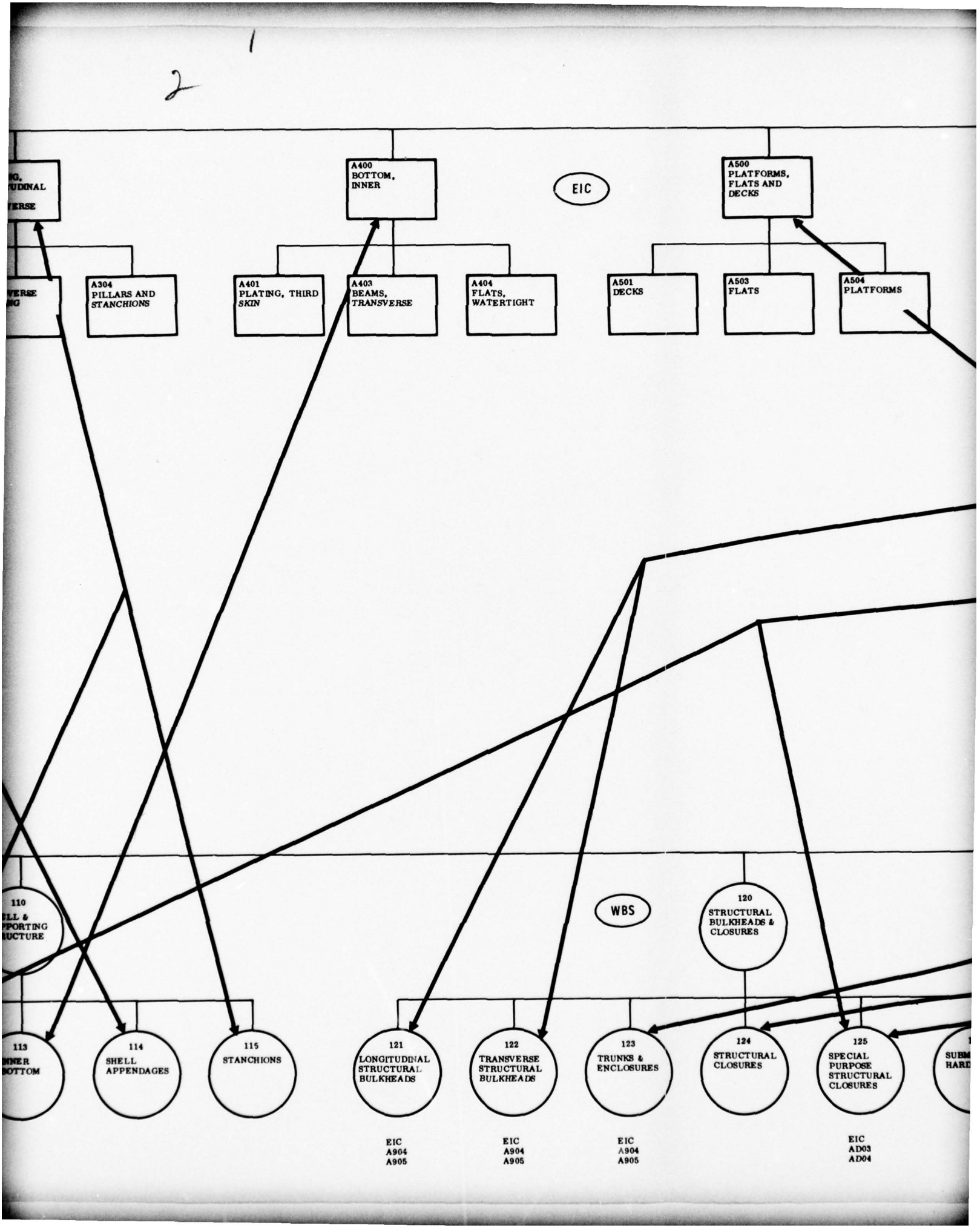
In developing a merged system, further study should be given to the degree of breakout needed by both the new-construction and maintenance managers. This may make it possible to make the second and third levels of breakout even more compatible than they now are. Only second-level breakout may be needed in some areas, while others need fourth- and fifth-level breakout. A study of degree of breakout, combined with a merger of the two systems, could solve some of the internal problems of both.

In addition, to assure maximum use of the data already collected, a cross-reference index would be needed. The three major items to be cross-referenced would be EIC, WBS, and the merged system. It may also be useful to cross reference to BSCI and the "9000 series" (see Section 2).

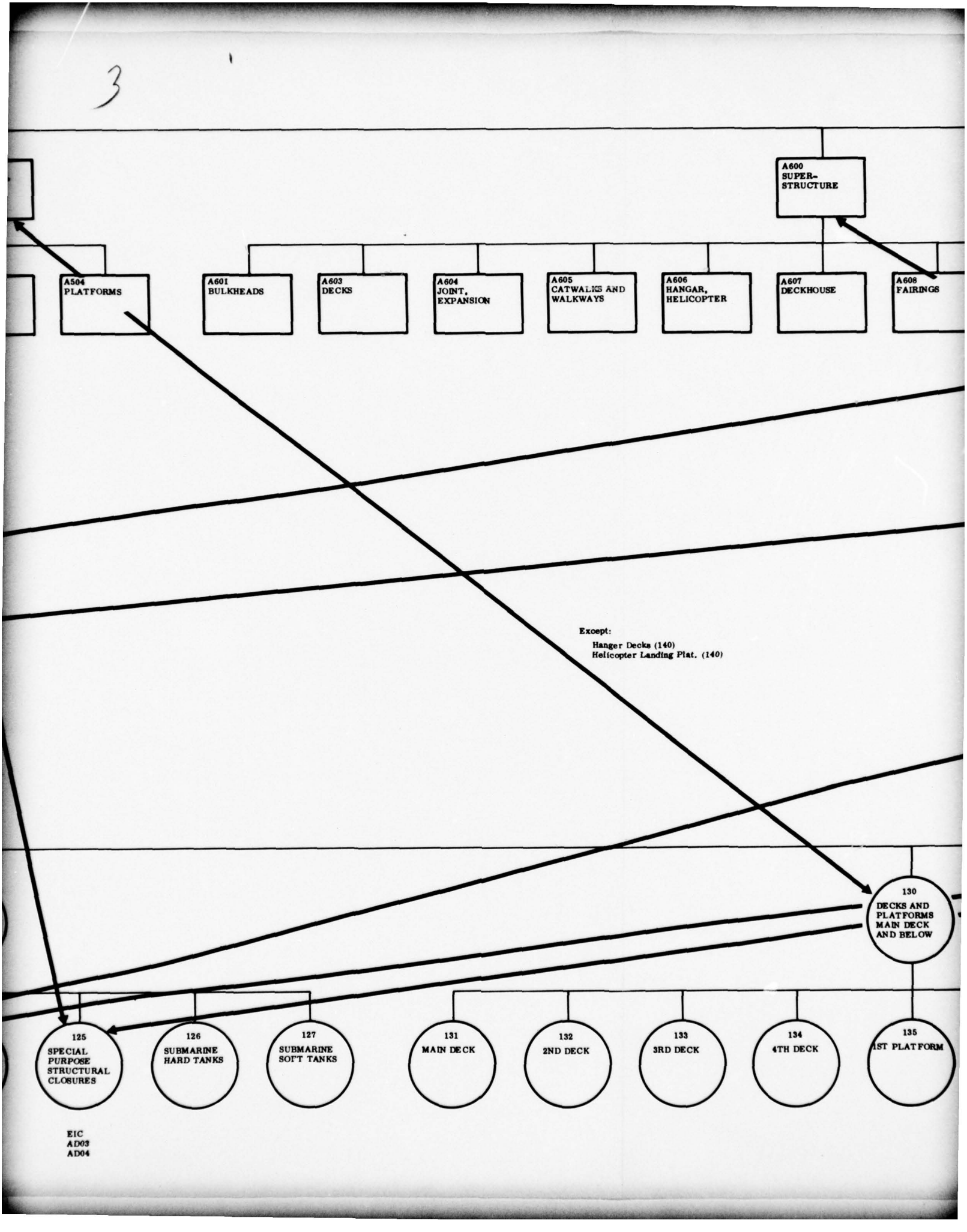
The final consideration, after having developed the structure of a merged system, would be to determine the appropriate coding scheme. The coding should not limit the structure, and must be compatible with existing data processing techniques. One consideration that should be taken into account is the need for the maintenance manager and the construction manager to retrieve second- and third-level data in different groupings. This problem can be minimized by the use of proper coding techniques.

In conclusion, a merged WBS/EIC system is a feasible common language for configuration accounting within the Navy. The similarities between the two systems could provide the basis for a merged system meeting the management needs of both new construction and maintenance. Determination of the most effective degree of breakout, compilation of cross reference indexes, and development of a coding scheme based on the language structure are additional steps needed to develop the common language.

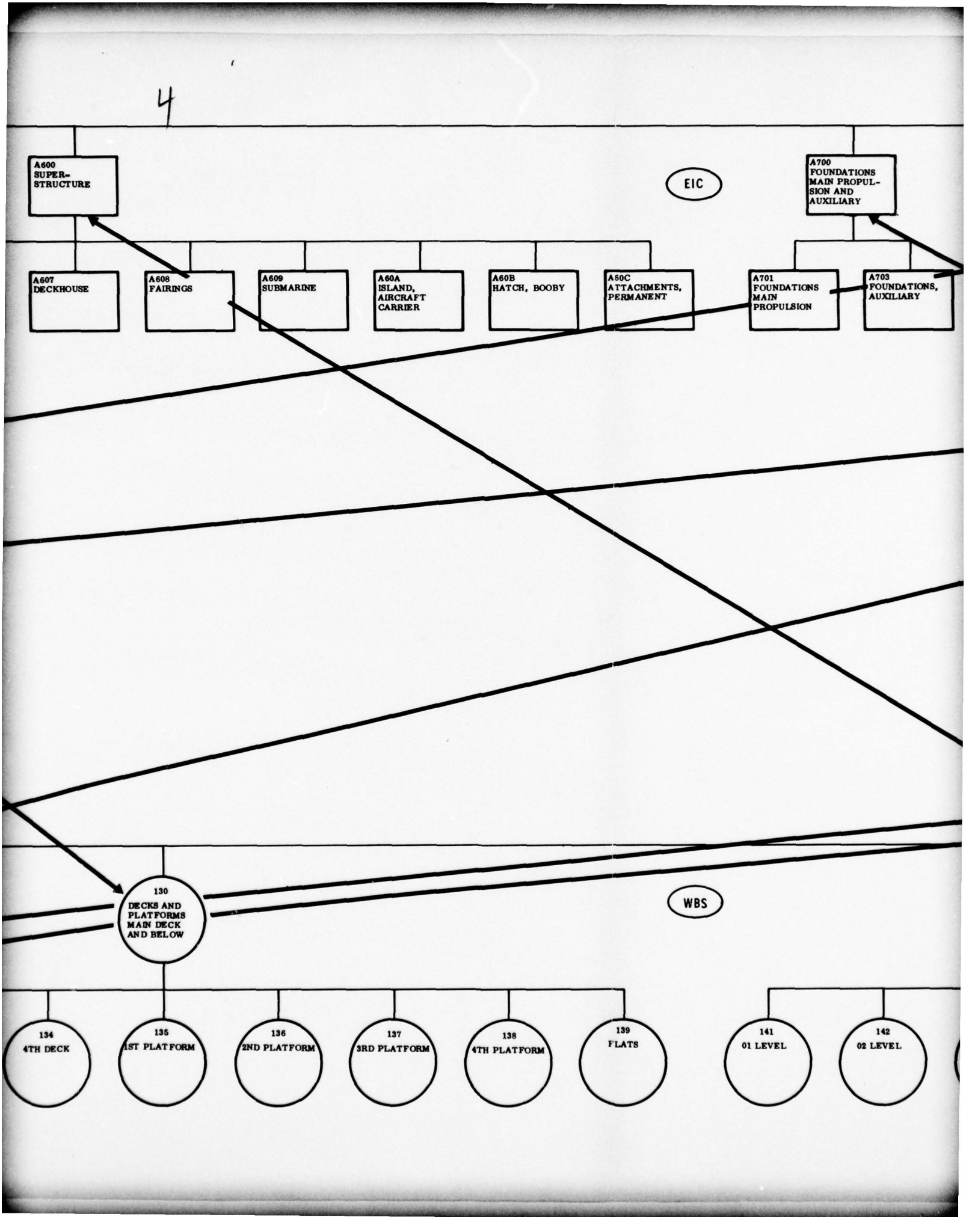

A000
HULL
STRUCTURE
A100
SHELL PLATING
AND PLANKING
EIC
A300
FRAMING,
LONGITUDINAL
AND
TRANSVERSE
A101
PLATING
A103
PLANKING
A301
LONGITUDINAL
FRAMING
A303
TRANSVERSE
FRAMING
A304
PILLARS AND
STANCHIONS
100
HULL
STRUCTURE
?
WBS
110
SHELL &
SUPPORTING
STRUCTURE
101
GENERAL
ARRANGEMENT
STRUCTURAL
DRAWINGS
111
SHELL
PLATING
112
FRAMING
113
INNER
BOTTOM
114
SHELL
APPENDAGES

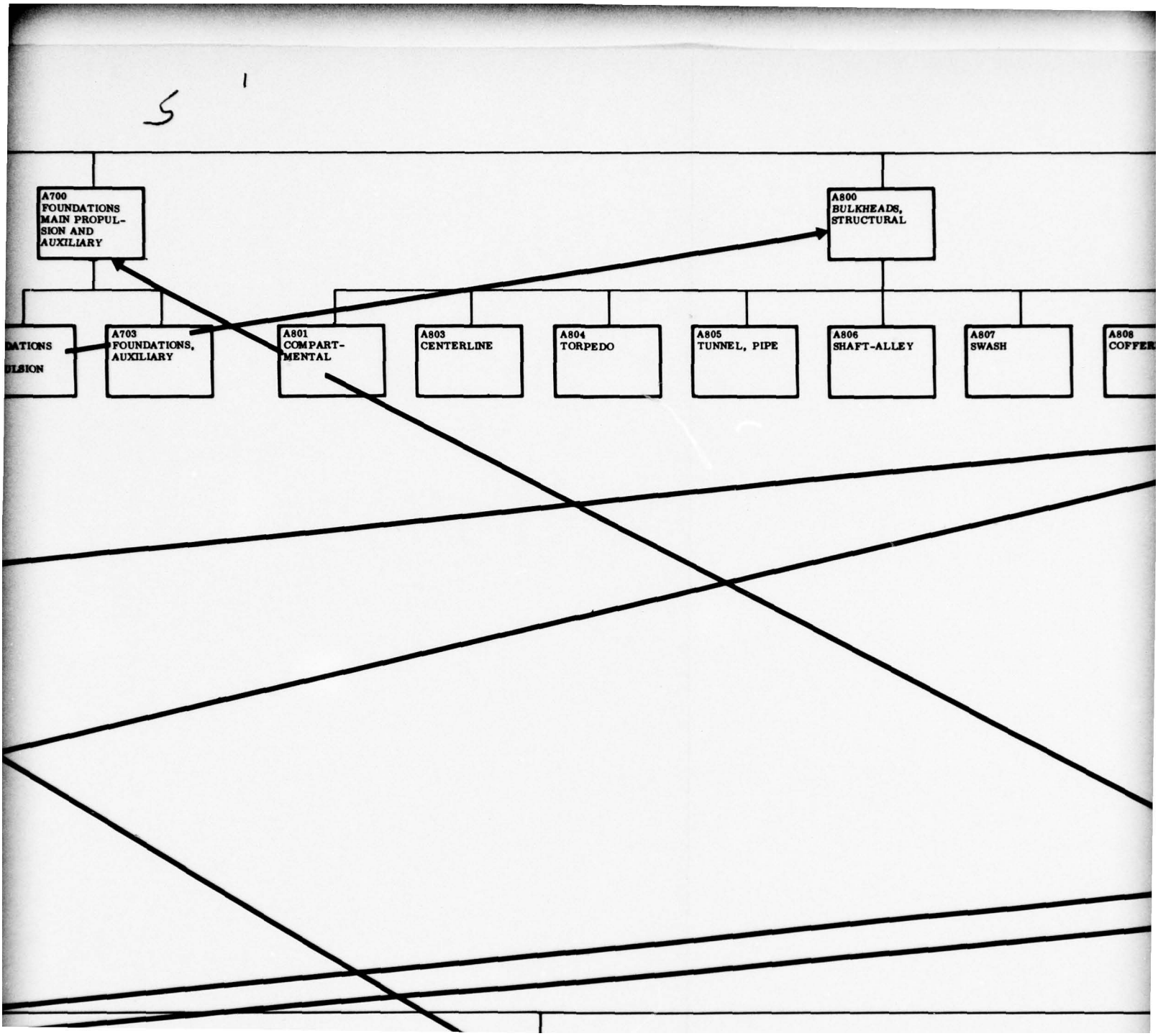

A400
BOTTOM,
INNER
EIC
A500
PLATFORMS,
FLATS AND
DECKS
A304
PILLARS AND
STANCHIONS
A401
PLATING, THIRD
SKIN
A403
BEAMS,
TRANSVERSE
A404
FLATS,
WATERTIGHT
A501
DECKS
A503
FLATS
A504
PLATFORMS
WBS
110
120
STRUCTURAL
BULKHEADS &
CLOSURES
113
114
SHELL
APPENDAGES
115
STANCHIONS
121
LONGITUDINAL
STRUCTURAL
BULKHEADS
122
TRANSVERSE
STRUCTURAL
BULKHEADS
123
TRUNKS &
ENCLOSURES
124
STRUCTURAL
CLOSURES
125
SPECIAL
PURPOSE
STRUCTURAL
CLOSURES
EIC
A904
A905
EIC
A904
A905
EIC
A904
A905
EIC
AD03
AD04

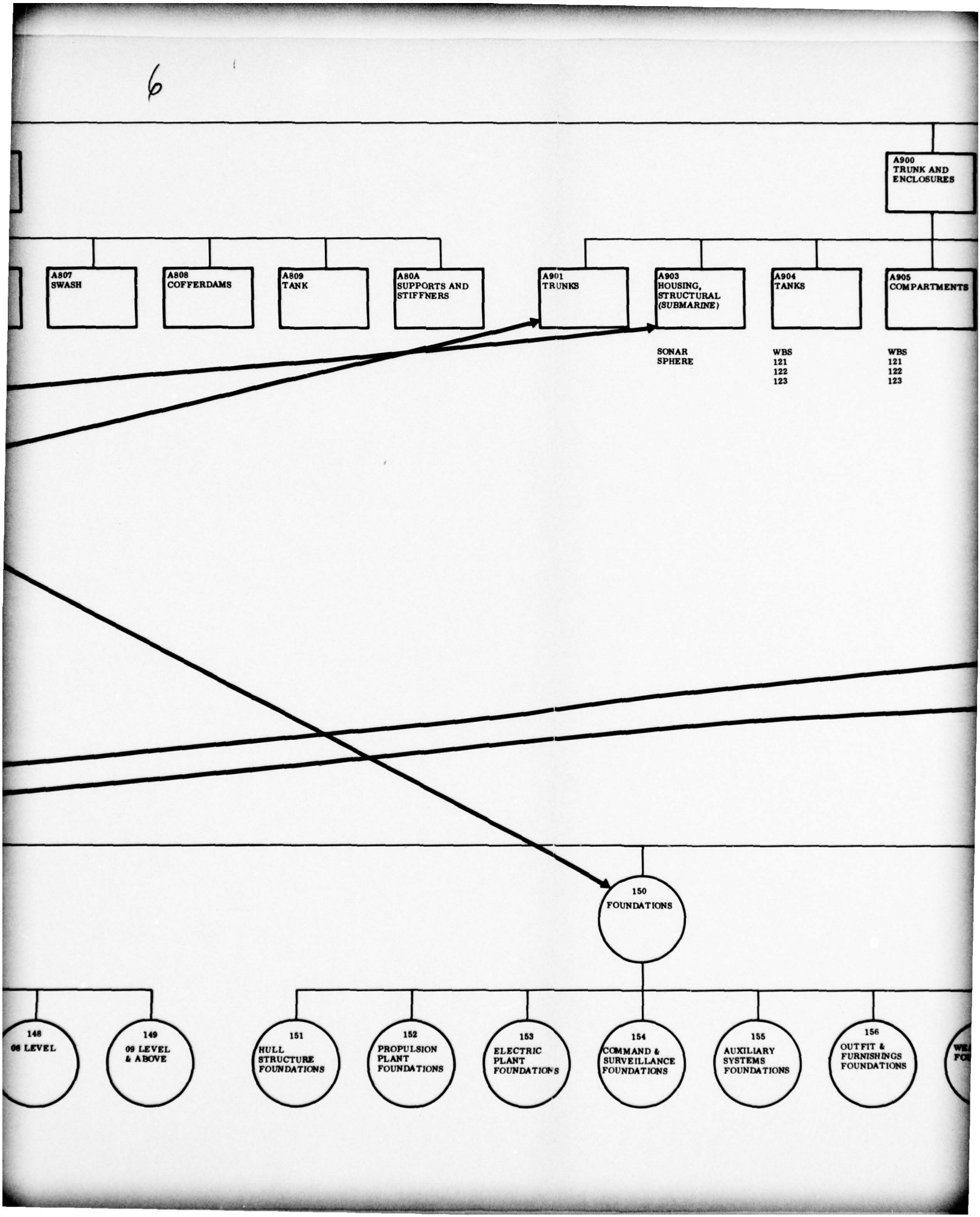
3

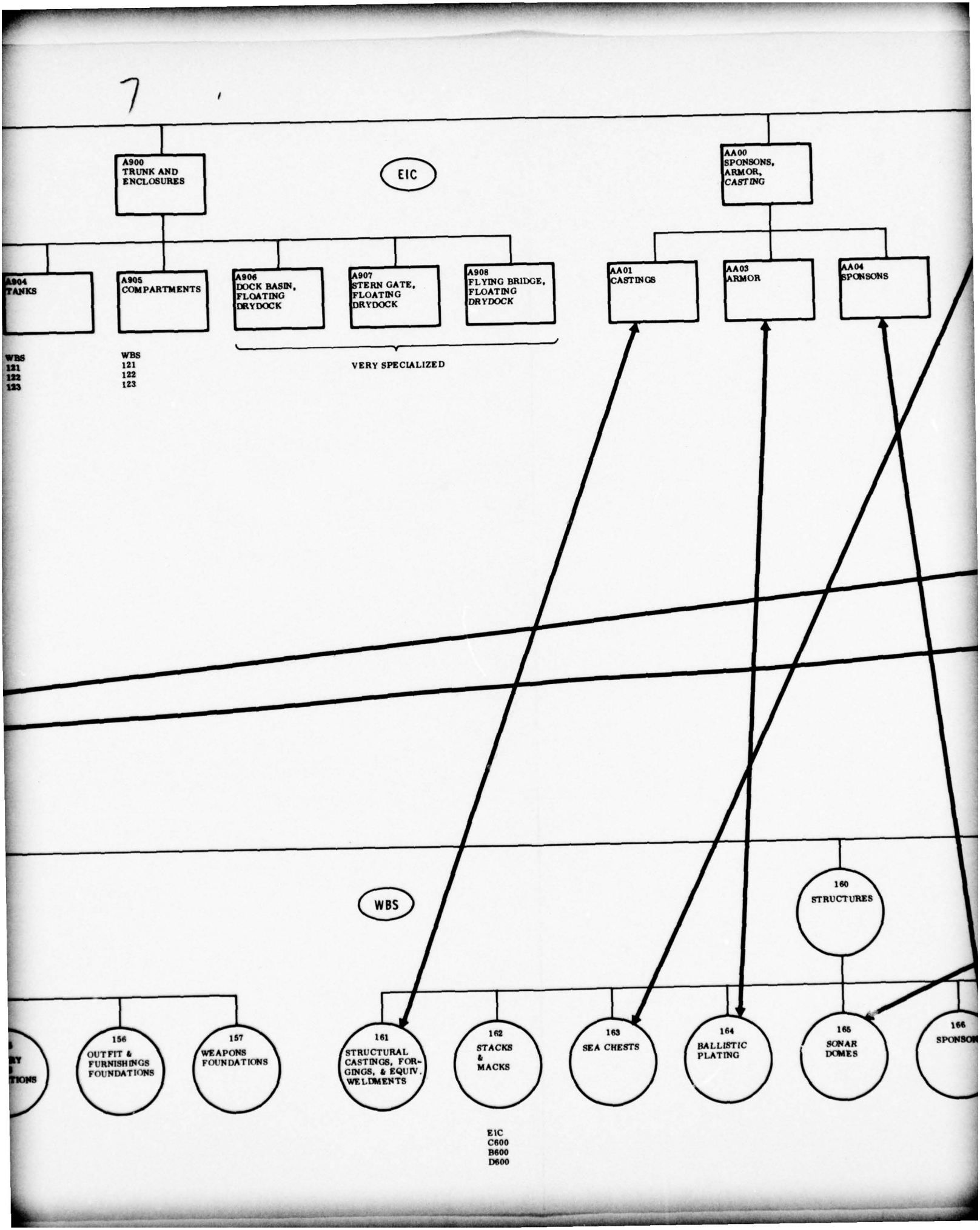

A600
SUPER-
STRUCTURE
A504
PLATFORMS
A601
BULKHEADS
A603
DECKS
A604
JOINT,
EXPANSION
A605
CATWALKS AND
WALKWAYS
A606
HANGAR,
HELICOPTER
A607
DECKHOUSE
A608
FAIRINGS
Except:
Hanger Decks (140)
Helicopter Landing Plat. (140)
130
DECKS AND
PLATFORMS
MAIN DECK
AND BELOW
125
SPECIAL
PURPOSE
STRUCTURAL
CLOSURES
126
SUBMARINE
HARD TANKS
127
SUBMARINE
SOFT TANKS
131
MAIN DECK
132
2ND DECK
133
3RD DECK
134
4TH DECK
135
1ST PLATFORM
EIC
AD03
AD04

4

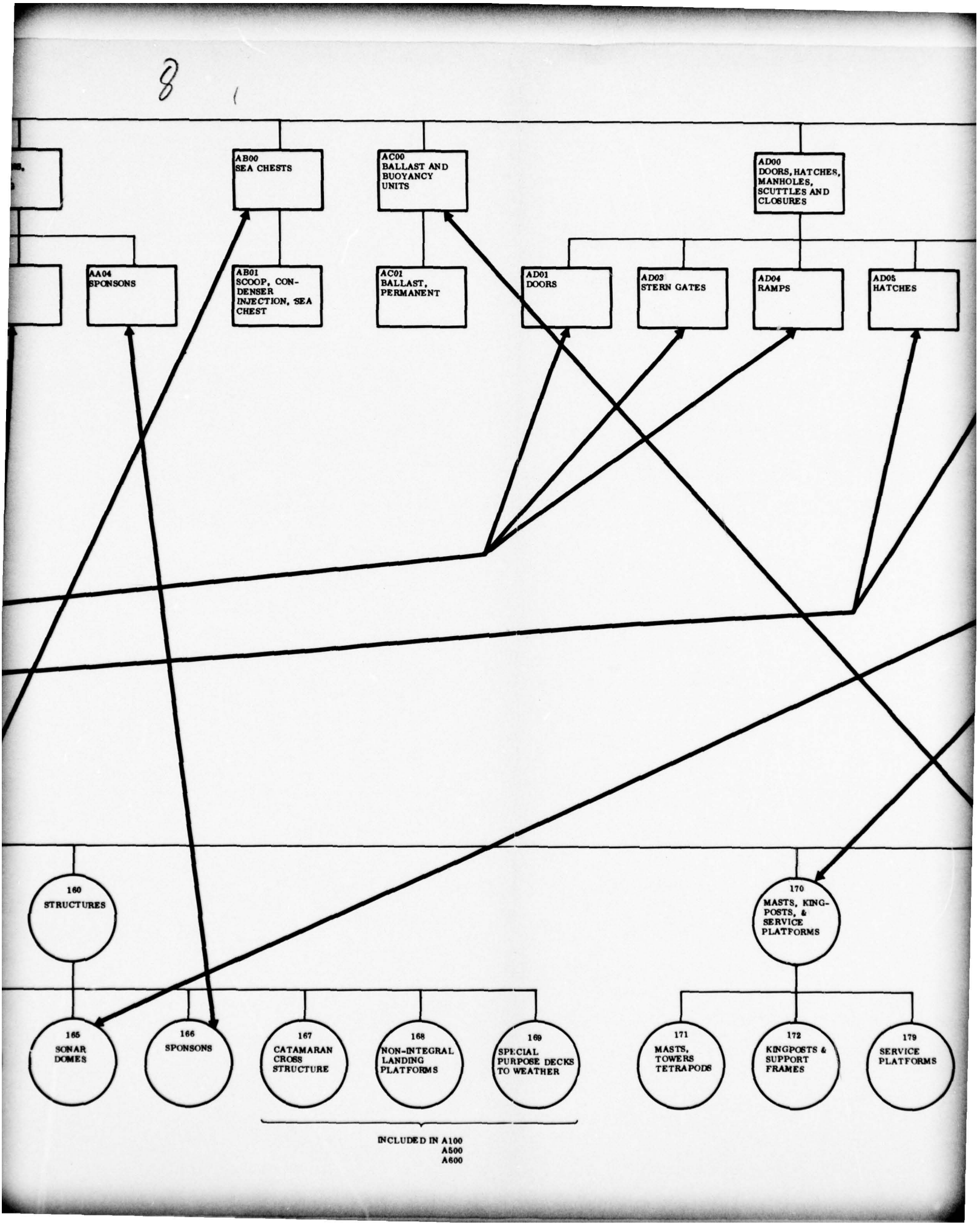

A600
SUPER-
STRUCTURE
EIC
A700
FOUNDATIONS
MAIN PROPUL-
SION AND
AUXILIARY
A607
DECKHOUSE
A608
FAIRINGS
A609
SUBMARINE
A60A
ISLAND,
AIRCRAFT
CARRIER
A60B
HATCH, BOOBY
A60C
ATTACHMENTS,
PERMANENT
A701
FOUNDATIONS
MAIN
PROPULSION
A703
FOUNDATIONS,
AUXILIARY
WBS
130
DECKS AND
PLATFORMS
MAIN DECK
AND BELOW
134
4TH DECK
135
1ST PLATFORM
136
2ND PLATFORM
137
3RD PLATFORM
138
4TH PLATFORM
139
FLATS
141
01 LEVEL
142
02 LEVEL

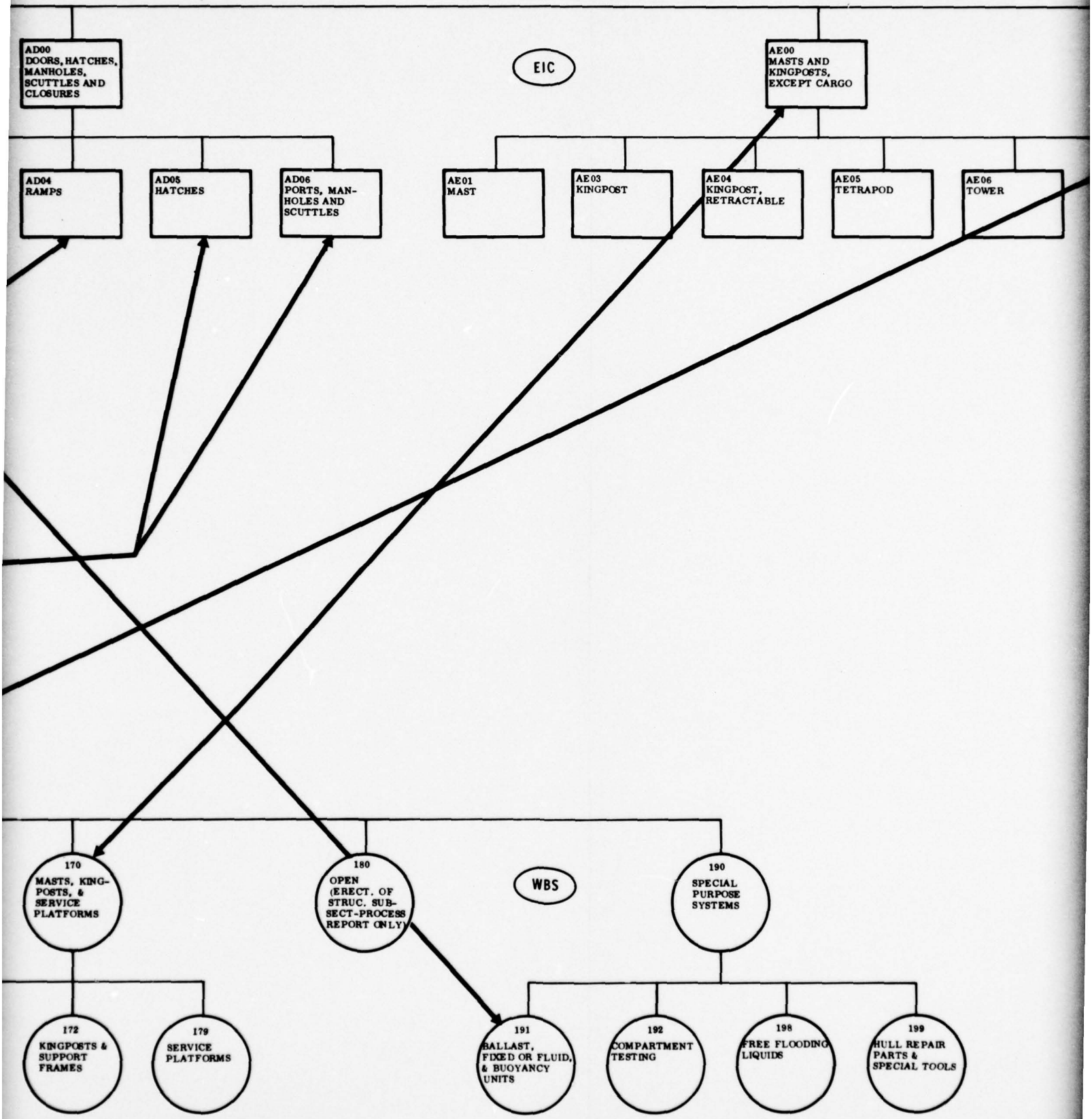

A700
FOUNDATIONS
MAIN PROPUL-
SION AND
AUXILIARY
A800
BULKHEADS,
STRUCTURAL
DATIONS
ULSION
A703
FOUNDATIONS,
AUXILIARY
A801
COMPART-
MENTAL
A803
CENTERLINE
A804
TORPEDO
A805
TUNNEL, PIPE
A806
SHAFT-ALLEY
A807
SWASH
A808
COFFER

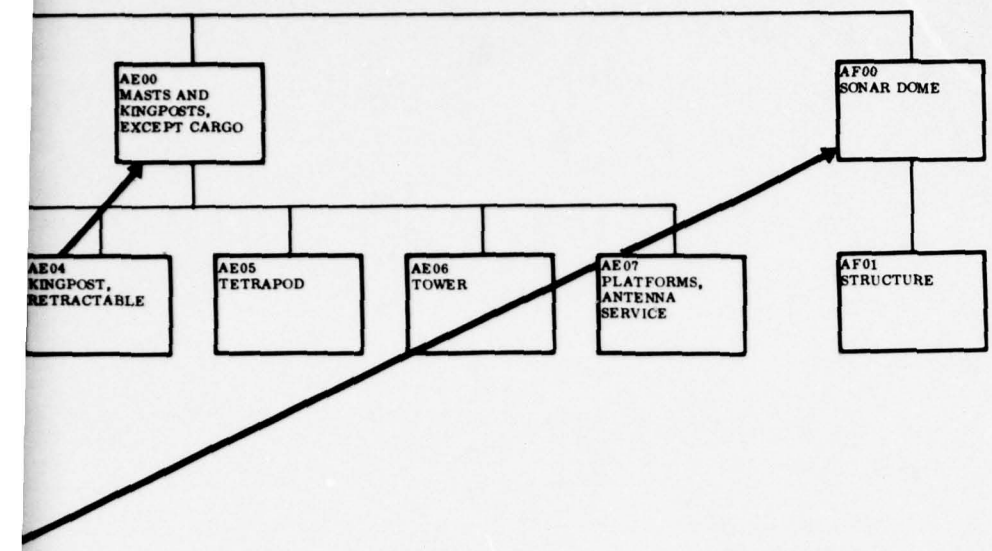

A900
TRUNK AND
ENCLOSURES
A807
SWASH
A808
COFFERDAMS
A809
TANK
A80A
SUPPORTS AND
STIFFNERS
A901
TRUNKS
A903
HOUSING,
STRUCTURAL
(SUBMARINE)
A904
TANKS
A905
COMPARTMENTS
SONAR
SPHERE
WBS
121
122
123
WBS
121
122
123
150
FOUNDATIONS
148
06 LEVEL
149
09 LEVEL
& ABOVE
151
HULL
STRUCTURE
FOUNDATIONS
152
PROPULSION
PLANT
FOUNDATIONS
153
ELECTRIC
PLANT
FOUNDATIONS
154
COMMAND &
SURVEILLANCE
FOUNDATIONS
155
AUXILIARY
SYSTEMS
FOUNDATIONS
156
OUTFIT &
FURNISHINGS
FOUNDATIONS


7
A900
TRUNK AND
ENCLOSURES
EIC
AA00
SPONSONS,
ARMOR,
CASTING
A904
TANKS
A905
COMPARTMENTS
A906
DOCK BASIN,
FLOATING
DRYDOCK
A907
STERN GATE,
FLOATING
DRYDOCK
A908
FLYING BRIDGE,
FLOATING
DRYDOCK
AA01
CASTINGS
AA03
ARMOR
AA04
SPONSONS
WBS
121
122
123
WBS
121
122
123
VERY SPECIALIZED
WBS
160
STRUCTURES
156
OUTFIT &
FURNISHINGS
FOUNDATIONS
157
WEAPONS
FOUNDATIONS
161
STRUCTURAL
CASTINGS, FOR-
GINGS, & EQUIV.
WELDMENTS
162
STACKS
&
MACKS
163
SEA CHESTS
164
BALLISTIC
PLATING
165
SONAR
DOMES
166
SPONSON
EIC
C600
B600
D600

8


AB00
SEA CHESTS
AC00
BALLAST AND BUOYANCY UNITS
AD00
DOORS, HATCHES, MANHOLES, SCUTTLES AND CLOSURES
AA04
SPONSONS
AB01
SCOOP, CONDENSER INJECTION, SEA CHEST
AC01
BALLAST, PERMANENT
AD01
DOORS
AD03
STERN GATES
AD04
RAMPS
AD05
HATCHES
160
STRUCTURES
170
MASTS, KINGPOSTS, & SERVICE PLATFORMS
165
SONAR DOMES
166
SPONSONS
167
CATAMARAN CROSS STRUCTURE
168
NON-INTEGRAL LANDING PLATFORMS
169
SPECIAL PURPOSE DECKS TO WEATHER
171
MASTS, TOWERS TETRAPODS
172
KINGPOSTS & SUPPORT FRAMES
179
SERVICE PLATFORMS
INCLUDED IN A100
A500
A600


AD00
DOORS, HATCHES, MANHOLES, SCUTTLES AND CLOSURES
EIC
AE00
MASTS AND KINGPOSTS, EXCEPT CARGO
AD04
RAMPS
AD05
HATCHES
AD06
PORTS, MANHOLES AND SCUTTLES
AE01
MAST
AE03
KINGPOST
AE04
KINGPOST, RETRACTABLE
AE05
TETRAPOD
AE06
TOWER
170
MASTS, KINGPOSTS, & SERVICE PLATFORMS
180
OPEN (ERECT. OF STRUC. SUBSECT-PROCESS REPORT ONLY)
WBS
190
SPECIAL PURPOSE SYSTEMS
172
KINGPOSTS & SUPPORT FRAMES
179
SERVICE PLATFORMS
191
BALLAST, FIXED OR FLUID, & BUOYANCY UNITS
192
COMPARTMENT TESTING
198
FREE FLOODING LIQUIDS
199
HULL REPAIR PARTS & SPECIAL TOOLS



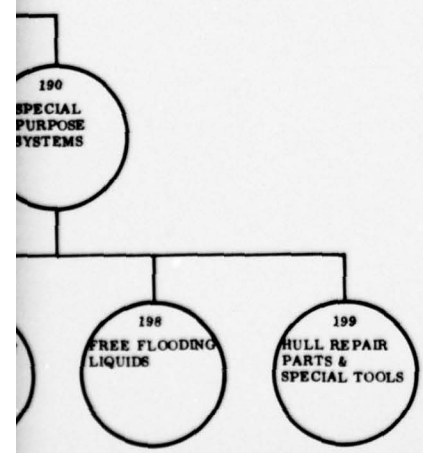
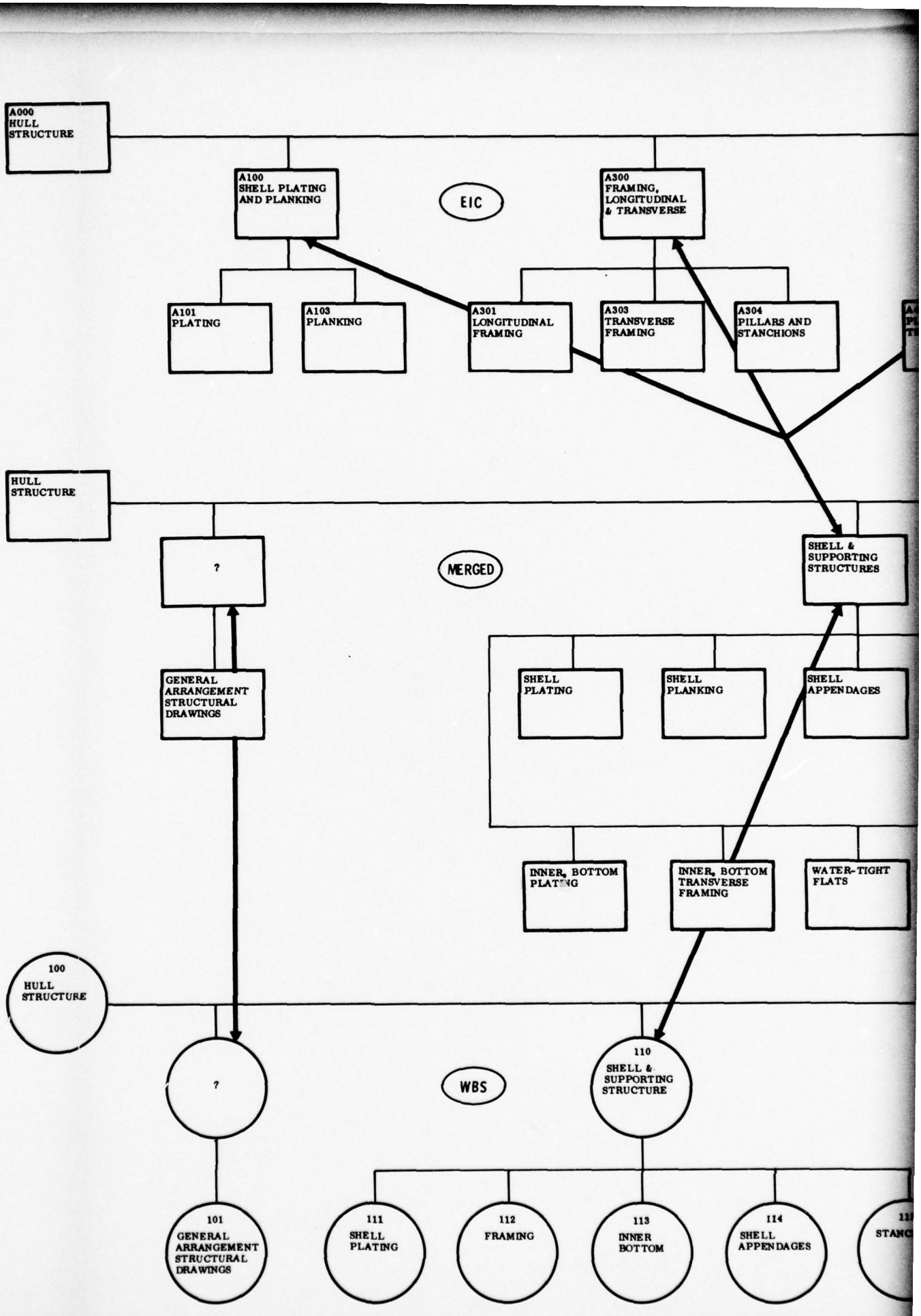
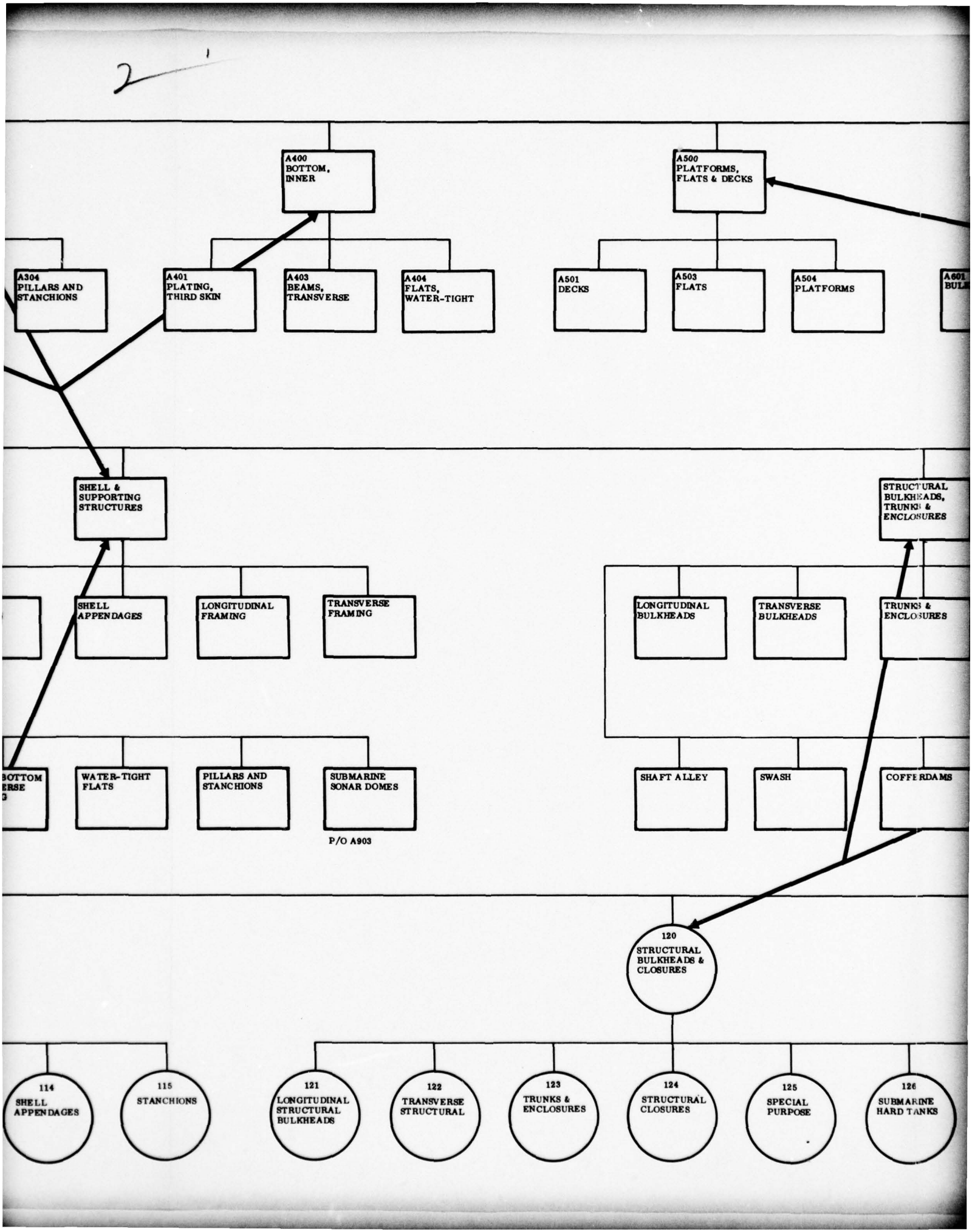
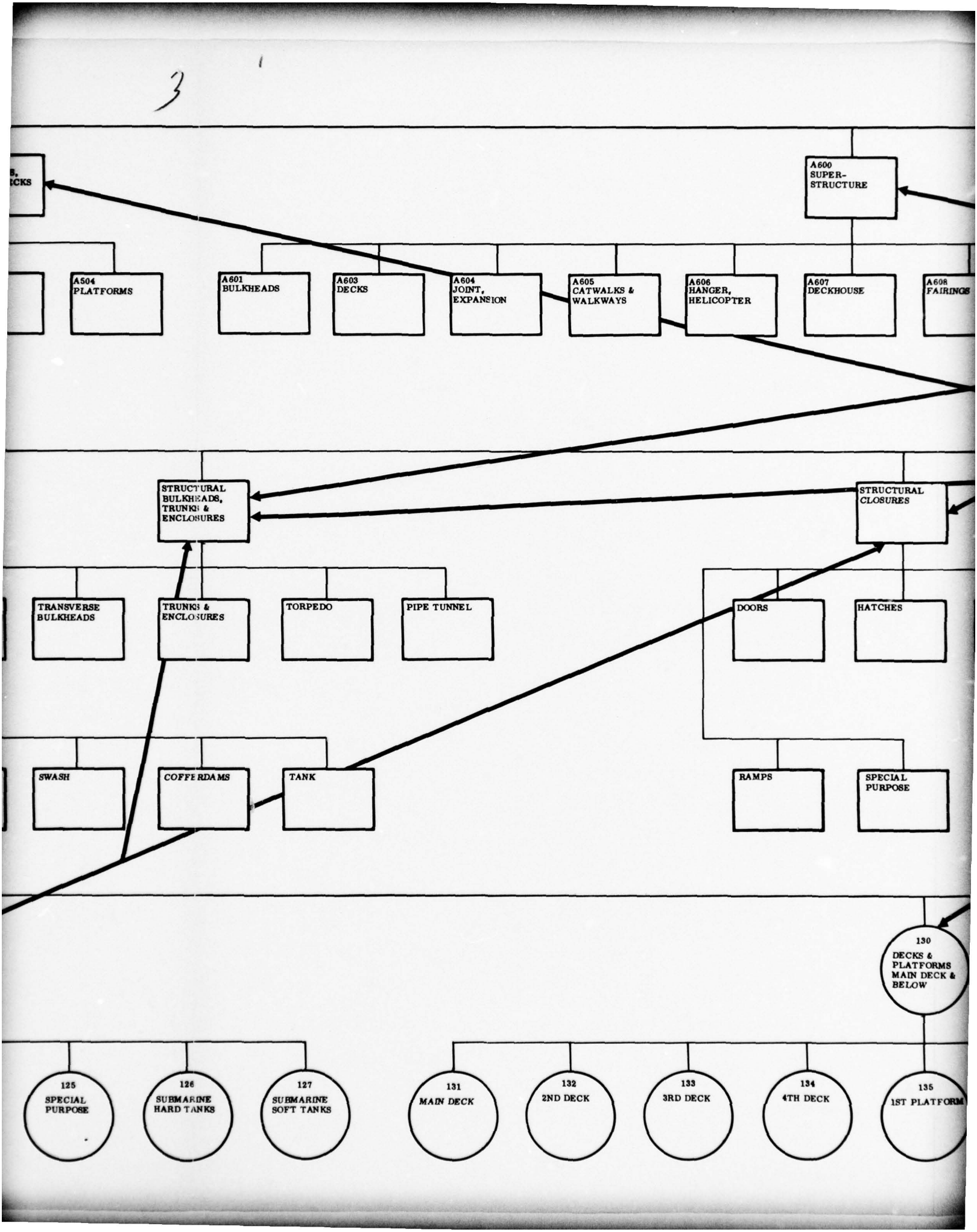


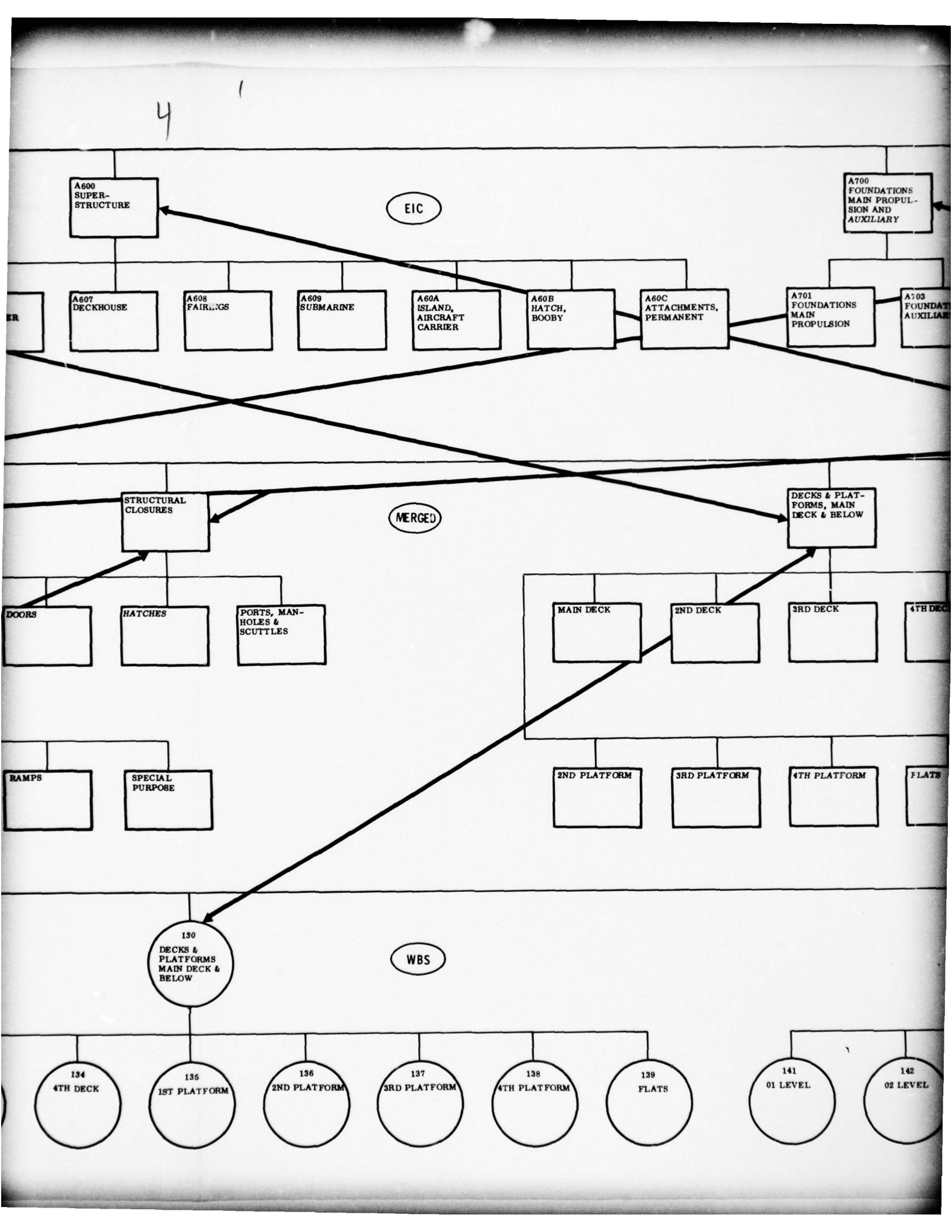
Figure 9. EIC and WBS Staging Diagram — Interrelationships for Hull System

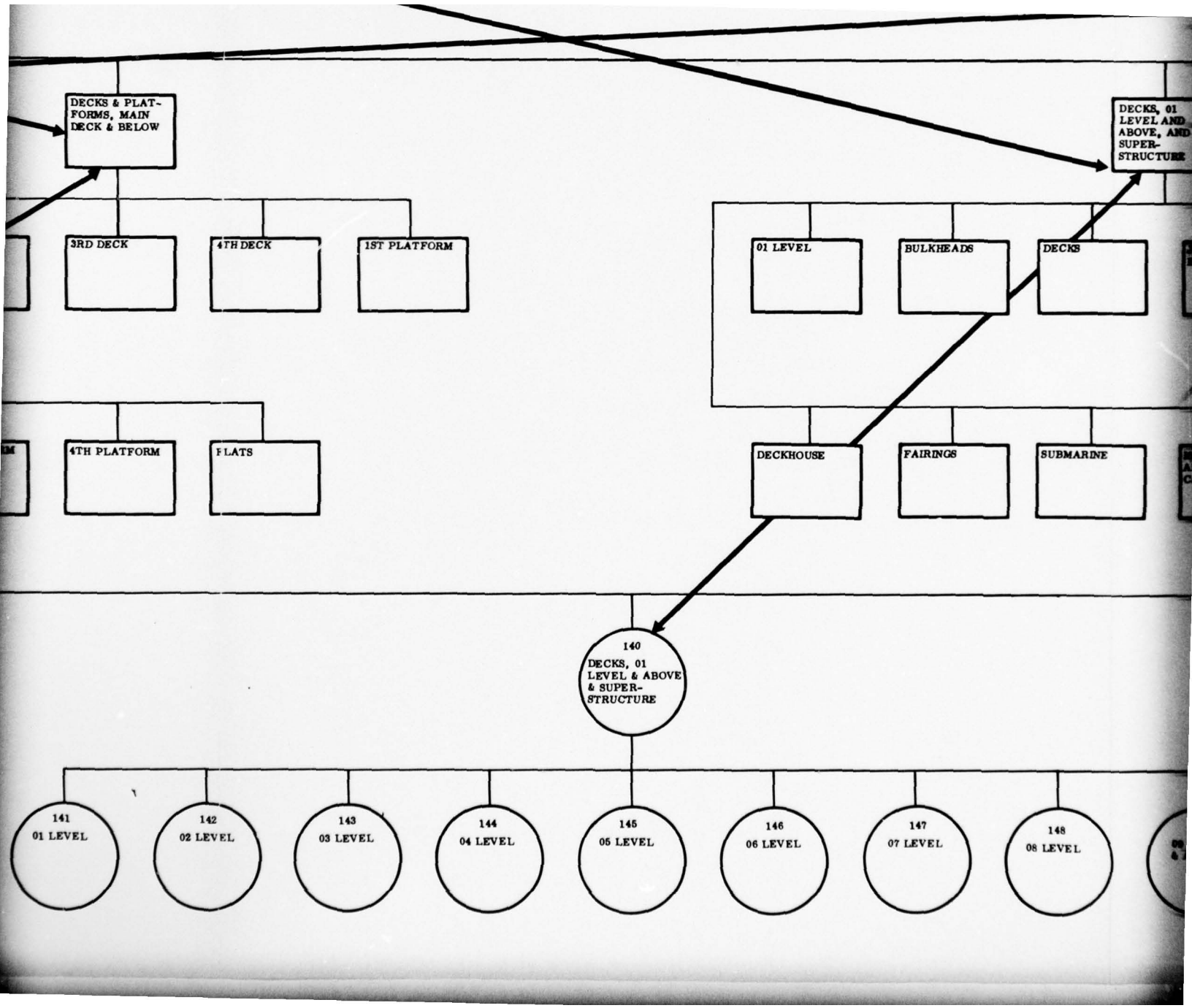

A000
HULL
STRUCTURE
A100
SHELL PLATING
AND PLANKING
EIC
A300
FRAMING,
LONGITUDINAL
& TRANSVERSE
A101
PLATING
A103
PLANKING
A301
LONGITUDINAL
FRAMING
A303
TRANSVERSE
FRAMING
A304
PILLARS AND
STANCHIONS
HULL
STRUCTURE
?
MERGED
SHELL &
SUPPORTING
STRUCTURES
GENERAL
ARRANGEMENT
STRUCTURAL
DRAWINGS
SHELL
PLATING
SHELL
PLANKING
SHELL
APPENDAGES
INNER BOTTOM
PLATING
INNER BOTTOM
TRANSVERSE
FRAMING
WATER-TIGHT
FLATS
100
HULL
STRUCTURE
?
WBS
110
SHELL &
SUPPORTING
STRUCTURE
101
GENERAL
ARRANGEMENT
STRUCTURAL
DRAWINGS
111
SHELL
PLATING
112
FRAMING
113
INNER
BOTTOM
114
SHELL
APPENDAGES

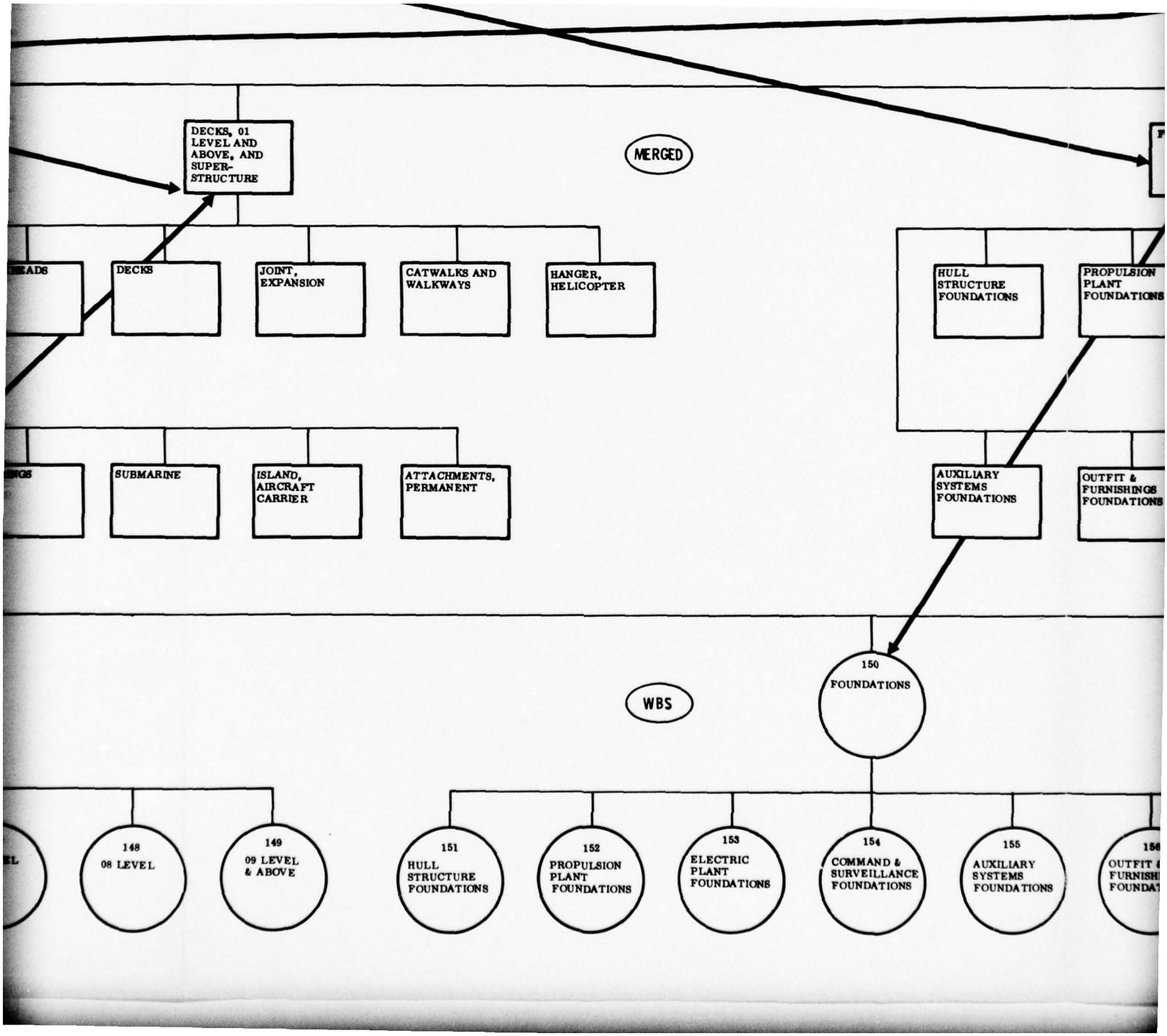

A400
BOTTOM, INNER
A500
PLATFORMS, FLATS & DECKS
A304
PILLARS AND STANCHIONS
A401
PLATING, THIRD SKIN
A403
BEAMS, TRANSVERSE
A404
FLATS, WATER-TIGHT
A501
DECKS
A503
FLATS
A504
PLATFORMS
SHELL & SUPPORTING STRUCTURES
STRUCTURAL BULKHEADS, TRUNKS & ENCLOSURES
SHELL APPENDAGES
LONGITUDINAL FRAMING
TRANSVERSE FRAMING
LONGITUDINAL BULKHEADS
TRANSVERSE BULKHEADS
TRUNKS & ENCLOSURES
WATER-TIGHT FLATS
PILLARS AND STANCHIONS
SUBMARINE SONAR DOMES
SHAFT ALLEY
SWASH
COFFERDAMS
P/O A903
120
STRUCTURAL BULKHEADS & CLOSURES
114
SHELL APPENDAGES
115
STANCHIONS
121
LONGITUDINAL STRUCTURAL BULKHEADS
122
TRANSVERSE STRUCTURAL
123
TRUNKS & ENCLOSURES
124
STRUCTURAL CLOSURES
125
SPECIAL PURPOSE
126
SUBMARINE HARD TANKS

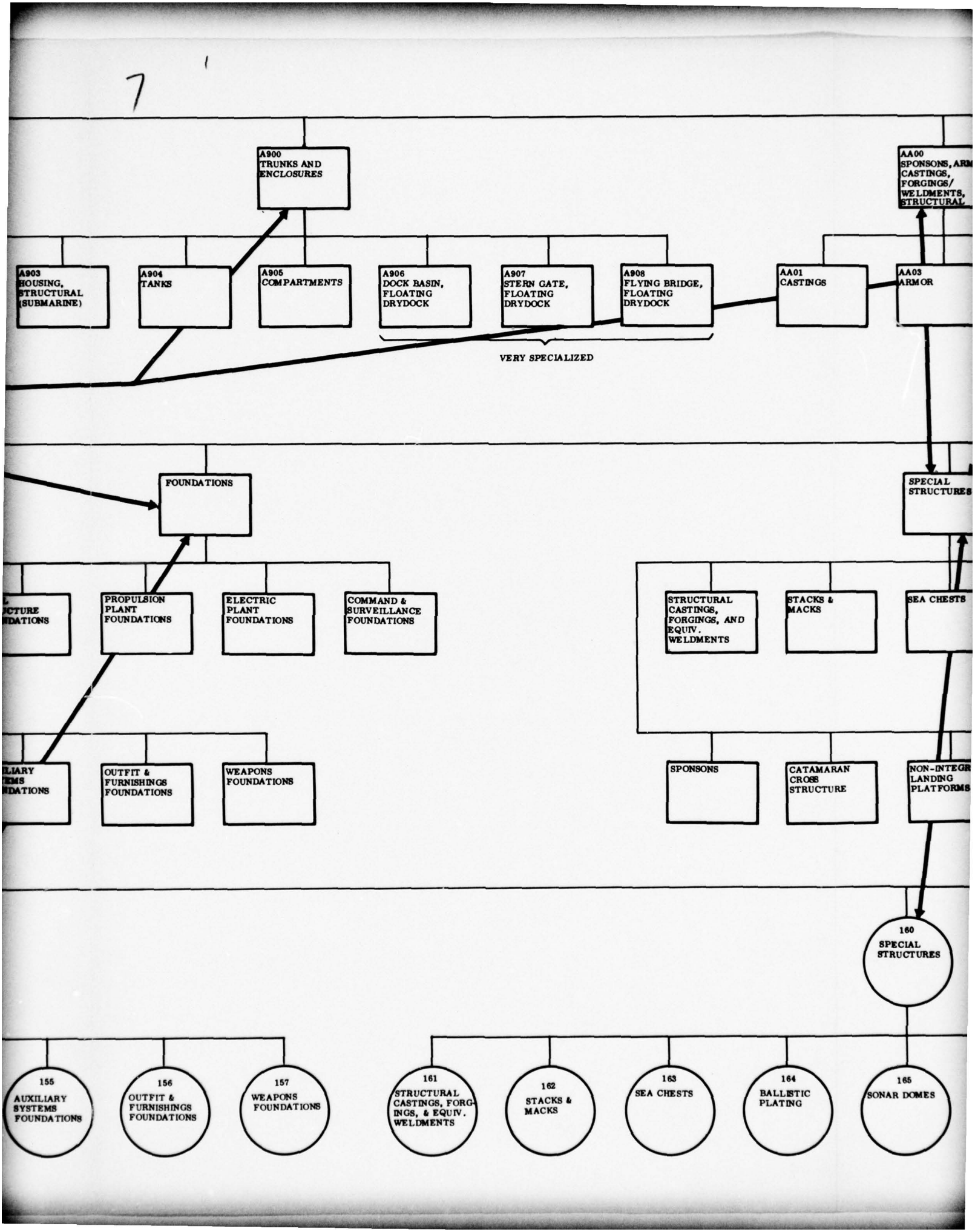
3


A600
SUPER-
STRUCTURE
A504
PLATFORMS
A601
BULKHEADS
A603
DECKS
A604
JOINT,
EXPANSION
A605
CATWALKS &
WALKWAYS
A606
HANGER,
HELICOPTER
A607
DECKHOUSE
A608
FAIRINGS
STRUCTURAL
BULKHEADS,
TRUNKS &
ENCLOSURES
STRUCTURAL
CLOSURES
TRANSVERSE
BULKHEADS
TRUNKS &
ENCLOSURES
TORPEDO
PIPE TUNNEL
DOORS
HATCHES
SWASH
COFFERDAMS
TANK
RAMPS
SPECIAL
PURPOSE
130
DECKS &
PLATFORMS
MAIN DECK &
BELOW
125
SPECIAL
PURPOSE
126
SUBMARINE
HARD TANKS
127
SUBMARINE
SOFT TANKS
131
MAIN DECK
132
2ND DECK
133
3RD DECK
134
4TH DECK
135
1ST PLATFORM


4
A600 SUPER-STRUCTURE
EIC
A700 FOUNDATIONS MAIN PROPUL-SION AND AUXILIARY
A607 DECKHOUSE
A608 FAIRINGS
A609 SUBMARINE
A60A ISLAND, AIRCRAFT CARRIER
A60B HATCH, BOOBY
A60C ATTACHMENTS, PERMANENT
A701 FOUNDATIONS MAIN PROPULSION
STRUCTURAL CLOSURES
MERGED
DECKS & PLAT-FORMS, MAIN DECK & BELOW
DOORS
HATCHES
PORTS, MAN-HOLES & SCUTTLES
MAIN DECK
2ND DECK
3RD DECK
RAMPS
SPECIAL PURPOSE
2ND PLATFORM
3RD PLATFORM
4TH PLATFORM
FLATS
130 DECKS & PLATFORMS MAIN DECK & BELOW
WBS
134 4TH DECK
135 1ST PLATFORM
136 2ND PLATFORM
137 3RD PLATFORM
138 4TH PLATFORM
139 FLATS
141 01 LEVEL
142 02 LEVEL


DECKS & PLAT-FORMS, MAIN DECK & BELOW
DECKS, 01 LEVEL AND ABOVE, AND SUPER-STRUCTURE
3RD DECK
4TH DECK
1ST PLATFORM
01 LEVEL
BULKHEADS
DECKS
4TH PLATFORM
FLATS
DECKHOUSE
FAIRINGS
SUBMARINE
140
DECKS, 01 LEVEL & ABOVE & SUPER-STRUCTURE
141
01 LEVEL
142
02 LEVEL
143
03 LEVEL
144
04 LEVEL
145
05 LEVEL
146
06 LEVEL
147
07 LEVEL
148
08 LEVEL


DECKS, 01 LEVEL AND ABOVE, AND SUPER-STRUCTURE
MERGED
DECKS
JOINT, EXPANSION
CATWALKS AND WALKWAYS
HANGER, HELICOPTER
HULL STRUCTURE FOUNDATIONS
PROPULSION PLANT FOUNDATIONS
SUBMARINE
ISLAND, AIRCRAFT CARRIER
ATTACHMENTS, PERMANENT
AUXILIARY SYSTEMS FOUNDATIONS
OUTFIT & FURNISHINGS FOUNDATIONS
WBS
150 FOUNDATIONS
148 08 LEVEL
149 09 LEVEL & ABOVE
151 HULL STRUCTURE FOUNDATIONS
152 PROPULSION PLANT FOUNDATIONS
153 ELECTRIC PLANT FOUNDATIONS
154 COMMAND & SURVEILLANCE FOUNDATIONS
155 AUXILIARY SYSTEMS FOUNDATIONS


7
A900
TRUNKS AND
ENCLOSURES
AA00
SPONSONS, ARM
CASTINGS,
FORGINGS/
WELDMENTS,
STRUCTURAL
A903
HOUSING,
STRUCTURAL
(SUBMARINE)
A904
TANKS
A905
COMPARTMENTS
A906
DOCK BASIN,
FLOATING
DRYDOCK
A907
STERN GATE,
FLOATING
DRYDOCK
A908
FLYING BRIDGE,
FLOATING
DRYDOCK
AA01
CASTINGS
AA03
ARMOR
VERY SPECIALIZED
FOUNDATIONS
SPECIAL
STRUCTURES
PROPULSION
PLANT
FOUNDATIONS
ELECTRIC
PLANT
FOUNDATIONS
COMMAND &
SURVEILLANCE
FOUNDATIONS
STRUCTURAL
CASTINGS,
FORGINGS, AND
EQUIV.
WELDMENTS
STACKS &
MACKS
SEA CHESTS
OUTFIT &
FURNISHINGS
FOUNDATIONS
WEAPONS
FOUNDATIONS
SPONSONS
CATAMARAN
CROSS
STRUCTURE
160
SPECIAL
STRUCTURES
155
AUXILIARY
SYSTEMS
FOUNDATIONS
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OUTFIT &
FURNISHINGS
FOUNDATIONS
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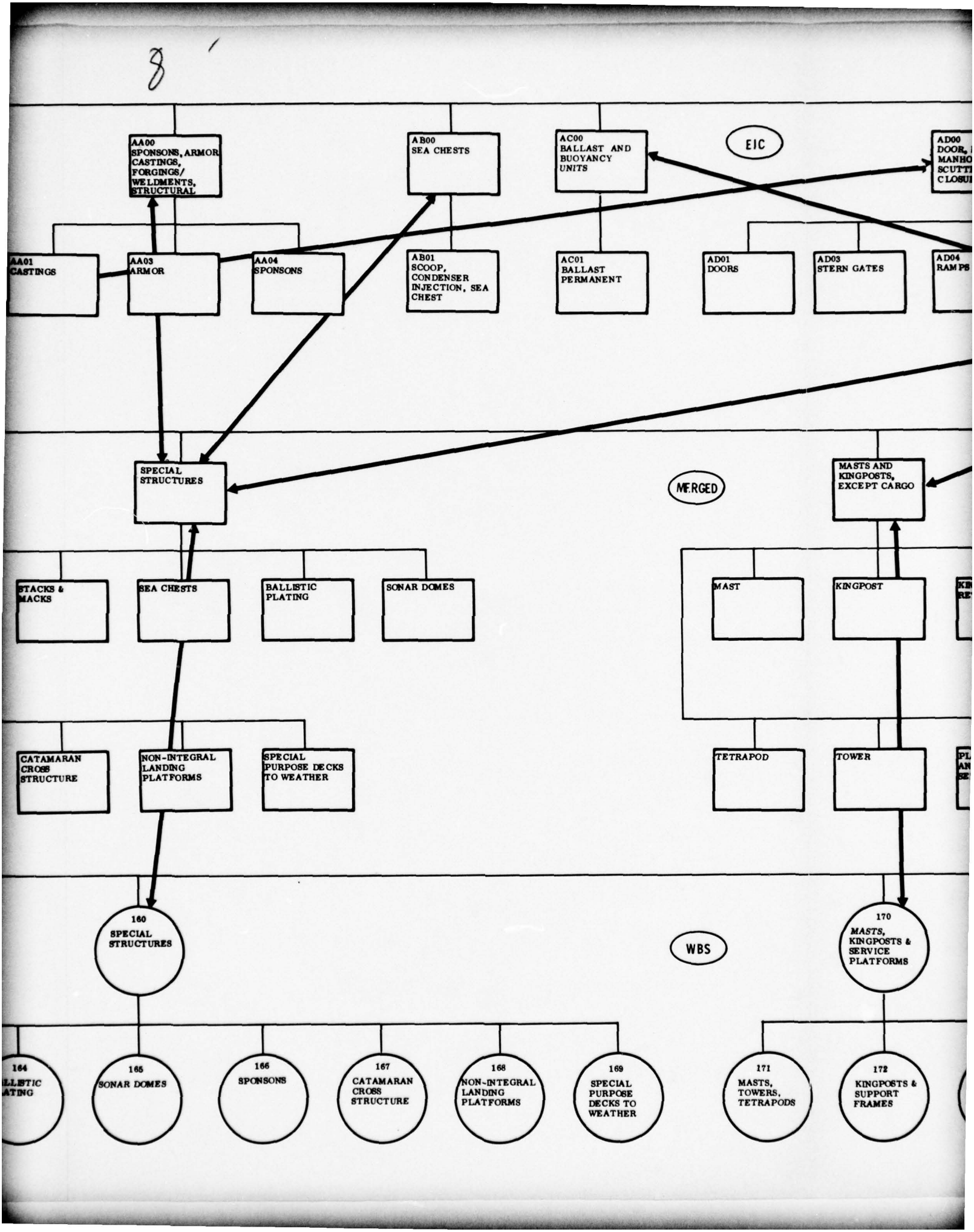
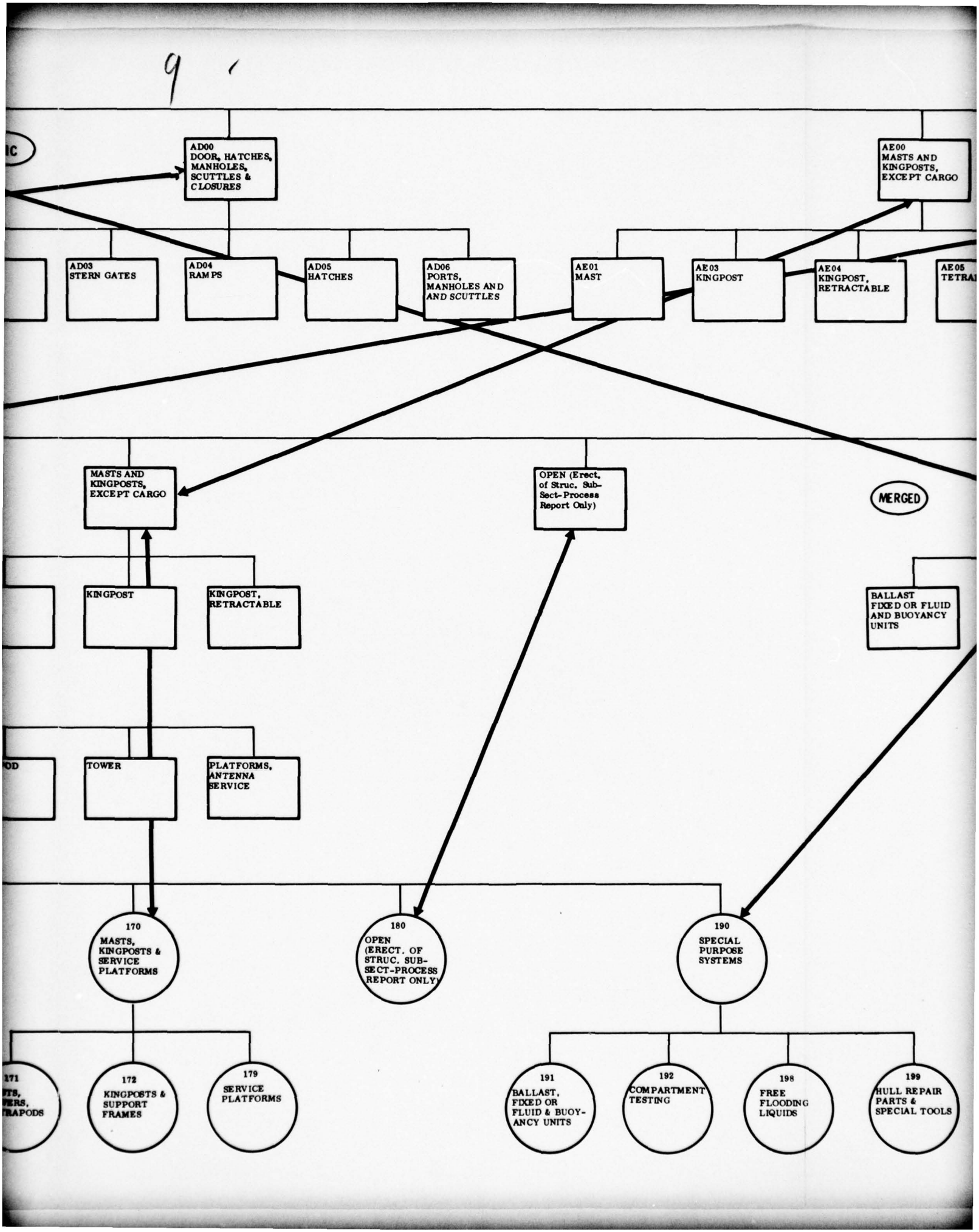
STRUCTURAL
CASTINGS, FORG-
INGS, & EQUIV.
WELDMENTS
162
STACKS &
MACKS
163
SEA CHESTS
164
BALLISTIC
PLATING
165
SONAR DOMES


8
AA00 SPONSONS, ARMOR CASTINGS, FORGINGS/ WELDMENTS, STRUCTURAL
AB00 SEA CHESTS
AC00 BALLAST AND BUOYANCY UNITS
EIC
AD00 DOOR, MANHO SCUTT CLOSU
AA01 CASTINGS
AA03 ARMOR
AA04 SPONSONS
AB01 SCOOP, CONDENSER INJECTION, SEA CHEST
AC01 BALLAST PERMANENT
AD01 DOORS
AD03 STERN GATES
AD04 RAMPS
SPECIAL STRUCTURES
MERGED
MASTS AND KINGPOSTS, EXCEPT CARGO
STACKS & MACKS
SEA CHESTS
BALLISTIC PLATING
SONAR DOMES
MAST
KINGPOST
CATAMARAN CROSS STRUCTURE
NON-INTEGRAL LANDING PLATFORMS
SPECIAL PURPOSE DECKS TO WEATHER
TETRAPOD
TOWER
160 SPECIAL STRUCTURES
WBS
170 MASTS, KINGPOSTS & SERVICE PLATFORMS
164 LLISTIC ATING
165 SONAR DOMES
166 SPONSONS
167 CATAMARAN CROSS STRUCTURE
168 NON-INTEGRAL LANDING PLATFORMS
169 SPECIAL PURPOSE DECKS TO WEATHER
171 MASTS, TOWERS, TETRAPODS
172 KINGPOSTS & SUPPORT FRAMES


9
AD00
DOOR, HATCHES, MANHOLES, SCUTTLES & CLOSURES
AE00
MASTS AND KINGPOSTS, EXCEPT CARGO
AD03
STERN GATES
AD04
RAMPS
AD05
HATCHES
AD06
PORTS, MANHOLES AND AND SCUTTLES
AE01
MAST
AE03
KINGPOST
AE04
KINGPOST, RETRACTABLE
MASTS AND KINGPOSTS, EXCEPT CARGO
OPEN (Erect. of Struc. Sub-Sect-Process Report Only)
MERGED
KINGPOST
KINGPOST, RETRACTABLE
BALLAST FIXED OR FLUID AND BUOYANCY UNITS
TOWER
PLATFORMS, ANTENNA SERVICE
170
MASTS, KINGPOSTS & SERVICE PLATFORMS
180
OPEN (ERECT. OF STRUC. SUB-SECT-PROCESS REPORT ONLY)
190
SPECIAL PURPOSE SYSTEMS
171
172
KINGPOSTS & SUPPORT FRAMES
179
SERVICE PLATFORMS
191
BALLAST, FIXED OR FLUID & BUOY-ANCY UNITS
192
COMPARTMENT TESTING
198
FREE FLOODING LIQUIDS
199
HULL REPAIR PARTS & SPECIAL TOOLS

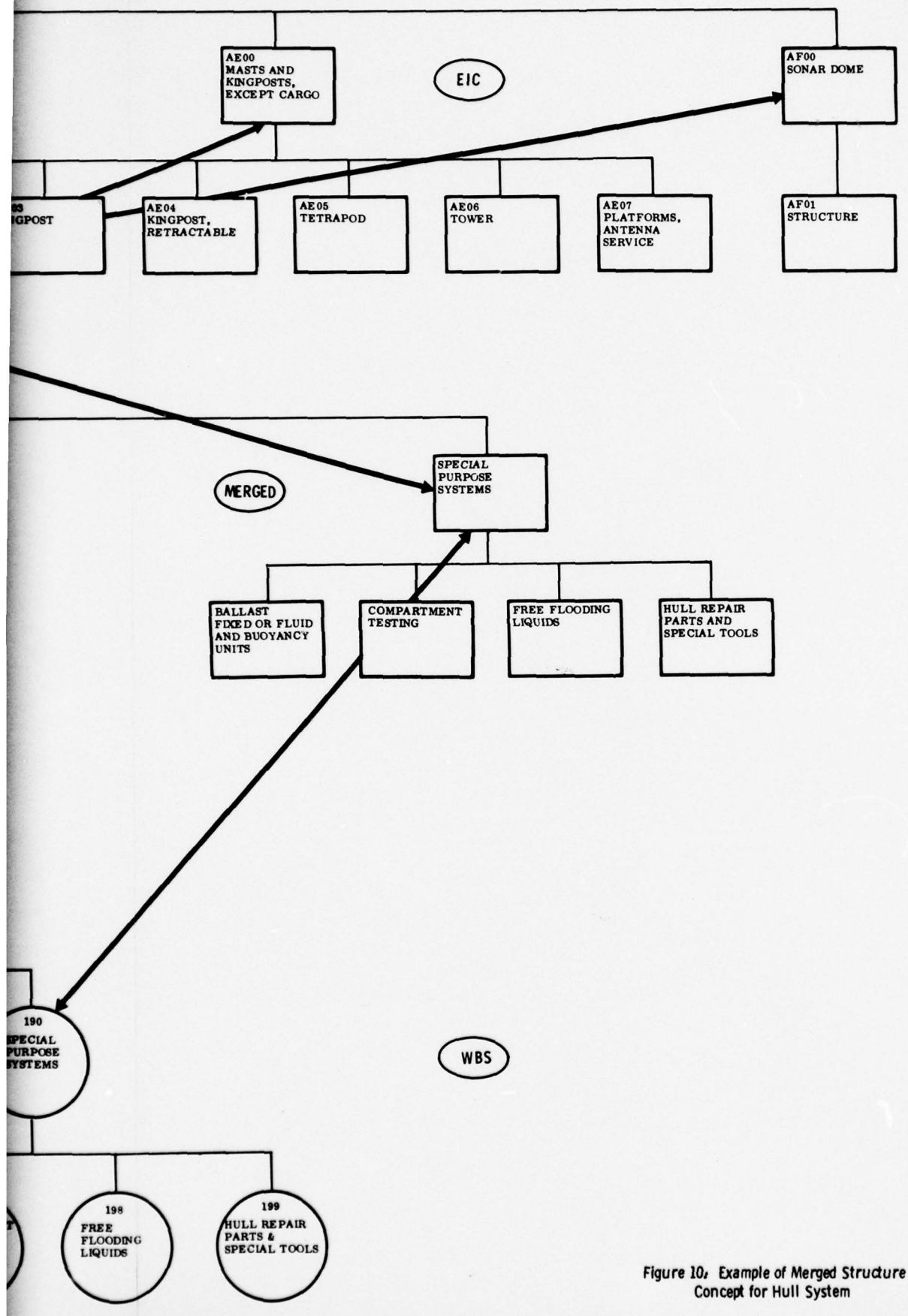


Figure 10. Example of Merged Structure Concept for Hull System

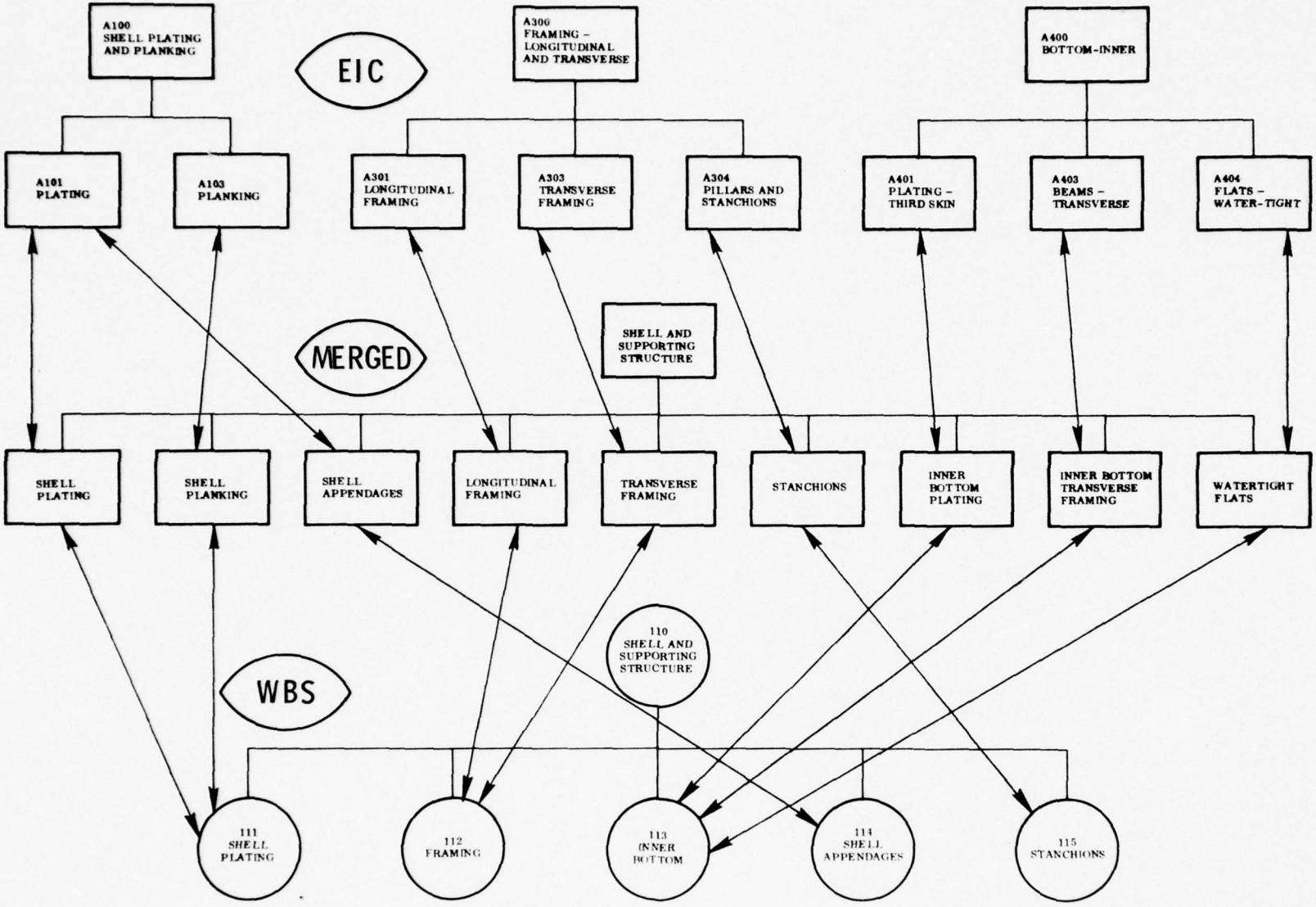
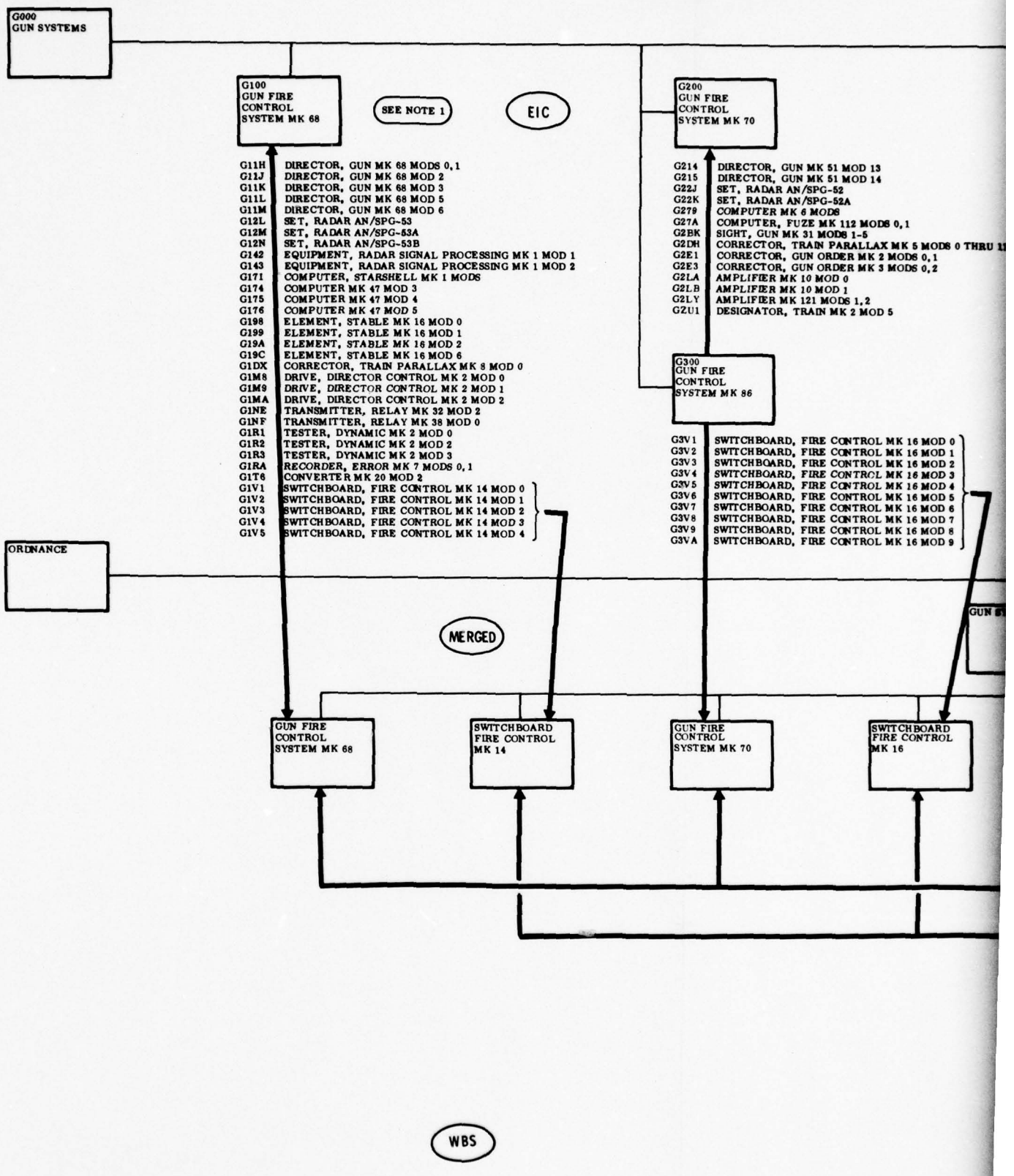
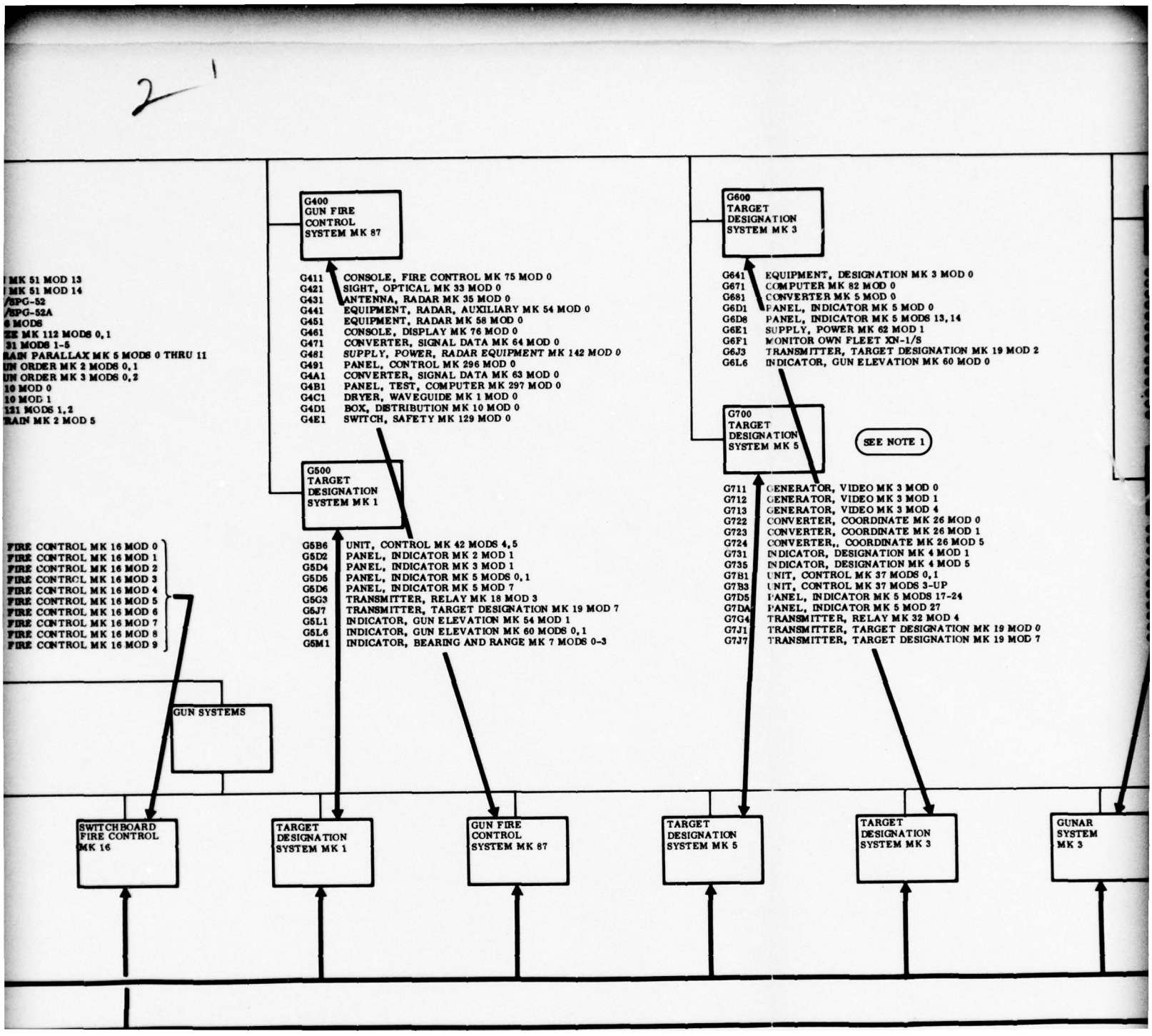


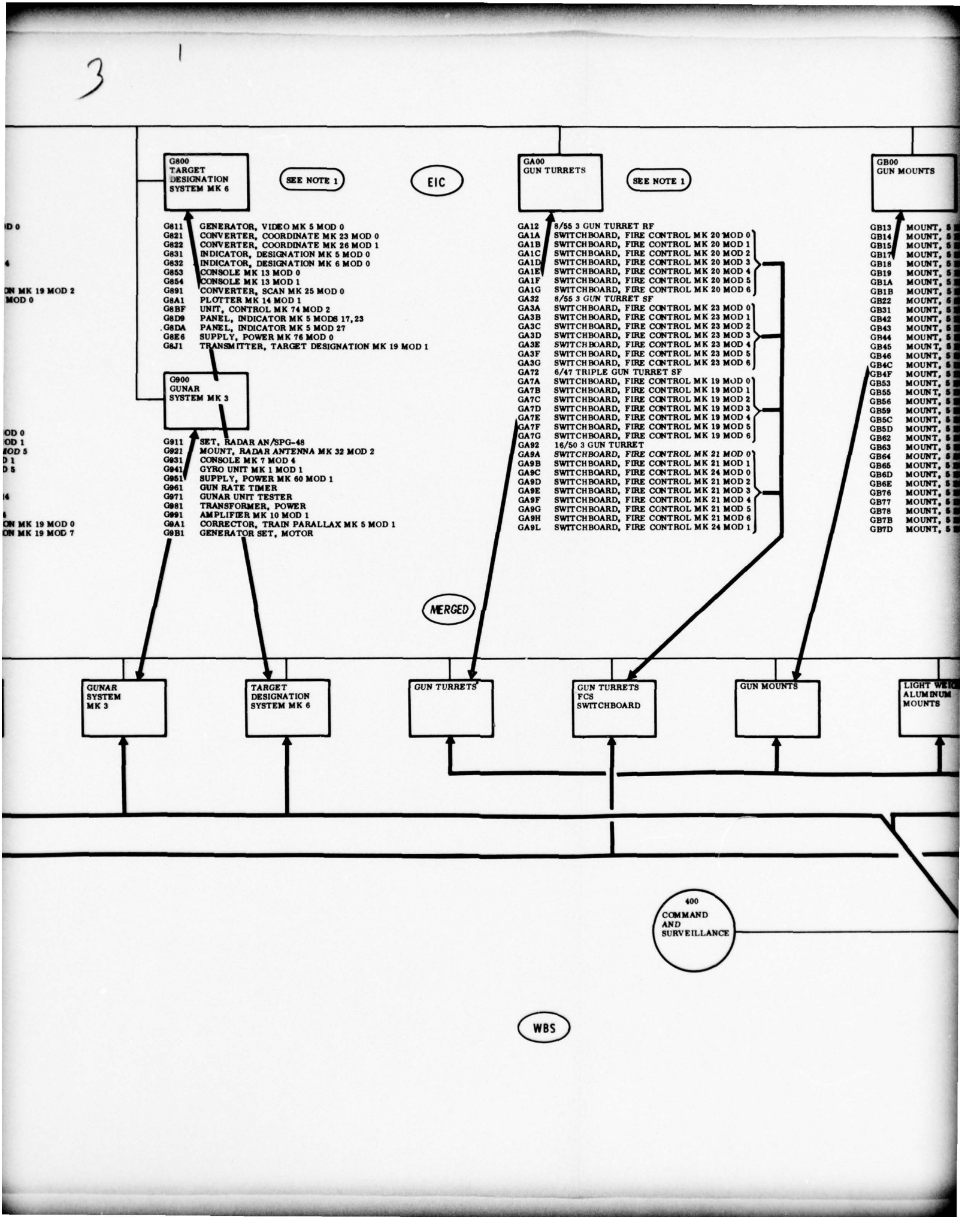
Figure 11. Typical Comparison of EIC Merged with WBS, Showing Third Level Relationship

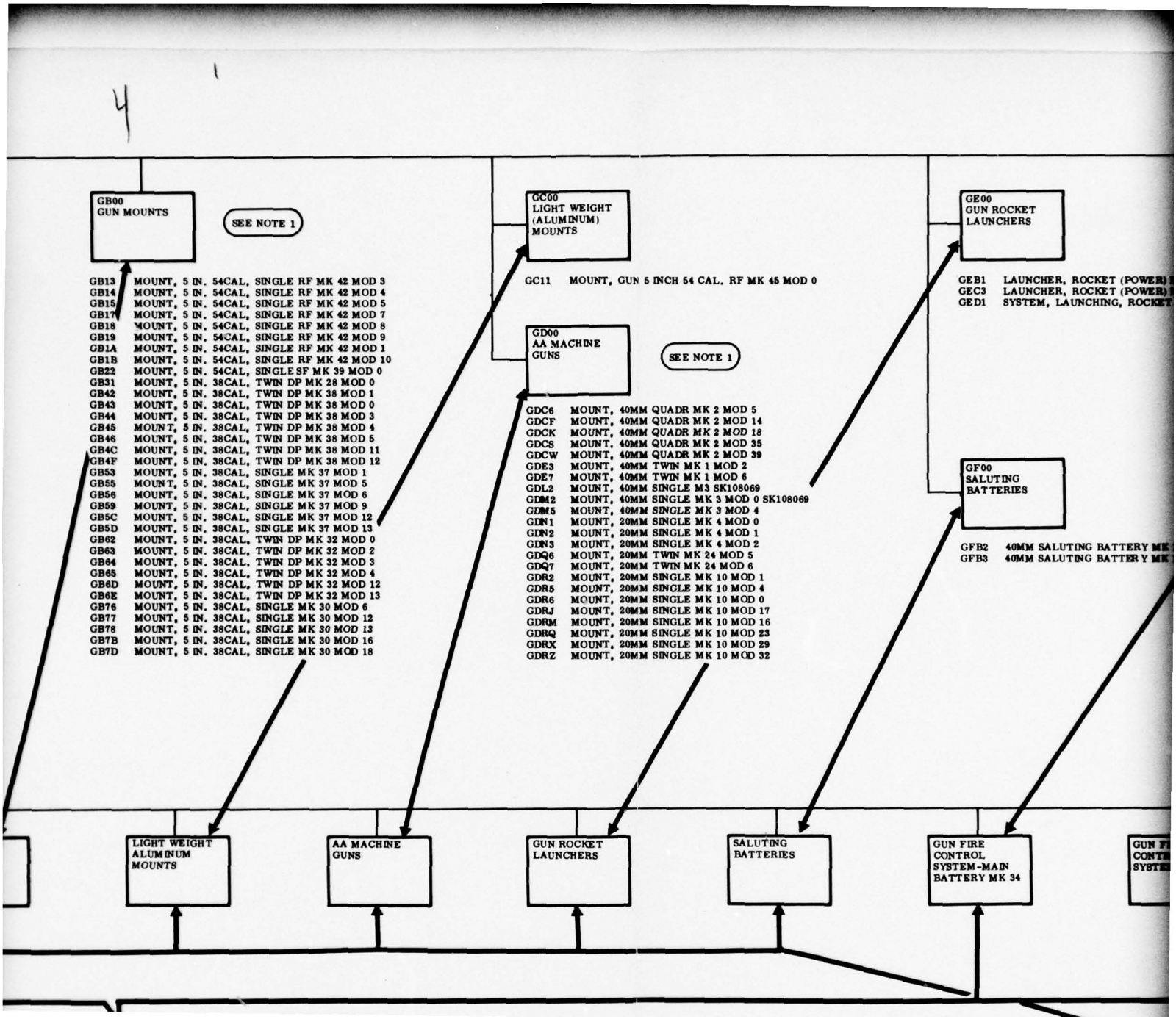

G000
GUN SYSTEMS
G100
GUN FIRE
CONTROL
SYSTEM MK 68
SEE NOTE 1
EIC
G11H DIRECTOR, GUN MK 68 MODS 0,1
G11J DIRECTOR, GUN MK 68 MOD 2
G11K DIRECTOR, GUN MK 68 MOD 3
G11L DIRECTOR, GUN MK 68 MOD 5
G11M DIRECTOR, GUN MK 68 MOD 6
G12L SET, RADAR AN/SPG-53
G12M SET, RADAR AN/SPG-53A
G12N SET, RADAR AN/SPG-53B
G142 EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 1
G143 EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 2
G171 COMPUTER, STARSHELL MK 1 MODS
G174 COMPUTER MK 47 MOD 3
G175 COMPUTER MK 47 MOD 4
G176 COMPUTER MK 47 MOD 5
G198 ELEMENT, STABLE MK 16 MOD 0
G199 ELEMENT, STABLE MK 16 MOD 1
G19A ELEMENT, STABLE MK 16 MOD 2
G19C ELEMENT, STABLE MK 16 MOD 6
G1DX CORRECTOR, TRAIN PARALLAX MK 8 MOD 0
G1M8 DRIVE, DIRECTOR CONTROL MK 2 MOD 0
G1M9 DRIVE, DIRECTOR CONTROL MK 2 MOD 1
G1MA DRIVE, DIRECTOR CONTROL MK 2 MOD 2
G1NE TRANSMITTER, RELAY MK 32 MOD 2
G1NF TRANSMITTER, RELAY MK 38 MOD 0
G1R1 TESTER, DYNAMIC MK 2 MOD 0
G1R2 TESTER, DYNAMIC MK 2 MOD 2
G1R3 TESTER, DYNAMIC MK 2 MOD 3
G1RA RECORDER, ERROR MK 7 MODS 0,1
G1T6 CONVERTER MK 20 MOD 2
G1V1 SWITCHBOARD, FIRE CONTROL MK 14 MOD 0
G1V2 SWITCHBOARD, FIRE CONTROL MK 14 MOD 1
G1V3 SWITCHBOARD, FIRE CONTROL MK 14 MOD 2
G1V4 SWITCHBOARD, FIRE CONTROL MK 14 MOD 3
G1V5 SWITCHBOARD, FIRE CONTROL MK 14 MOD 4
G200
GUN FIRE
CONTROL
SYSTEM MK 70
G214 DIRECTOR, GUN MK 51 MOD 13
G215 DIRECTOR, GUN MK 51 MOD 14
G22J SET, RADAR AN/SPG-52
G22K SET, RADAR AN/SPG-52A
G279 COMPUTER MK 6 MODS
G27A COMPUTER, FUZE MK 112 MODS 0,1
G2BK SIGHT, GUN MK 31 MODS 1-5
G2DH CORRECTOR, TRAIN PARALLAX MK 5 MODS 0 THRU 1
G2E1 CORRECTOR, GUN ORDER MK 2 MODS 0,1
G2E3 CORRECTOR, GUN ORDER MK 3 MODS 0,2
G2LA AMPLIFIER MK 10 MOD 0
G2LB AMPLIFIER MK 10 MOD 1
G2LY AMPLIFIER MK 121 MODS 1,2
GZU1 DESIGNATOR, TRAIN MK 2 MOD 5
G300
GUN FIRE
CONTROL
SYSTEM MK 86
G3V1 SWITCHBOARD, FIRE CONTROL MK 16 MOD 0
G3V2 SWITCHBOARD, FIRE CONTROL MK 16 MOD 1
G3V3 SWITCHBOARD, FIRE CONTROL MK 16 MOD 2
G3V4 SWITCHBOARD, FIRE CONTROL MK 16 MOD 3
G3V5 SWITCHBOARD, FIRE CONTROL MK 16 MOD 4
G3V6 SWITCHBOARD, FIRE CONTROL MK 16 MOD 5
G3V7 SWITCHBOARD, FIRE CONTROL MK 16 MOD 6
G3V8 SWITCHBOARD, FIRE CONTROL MK 16 MOD 7
G3V9 SWITCHBOARD, FIRE CONTROL MK 16 MOD 8
G3VA SWITCHBOARD, FIRE CONTROL MK 16 MOD 9
ORDNANCE
MERGED
GUN FIRE
CONTROL
SYSTEM MK 68
SWITCHBOARD
FIRE CONTROL
MK 14
GUN FIRE
CONTROL
SYSTEM MK 70
SWITCHBOARD
FIRE CONTROL
MK 16
WBS

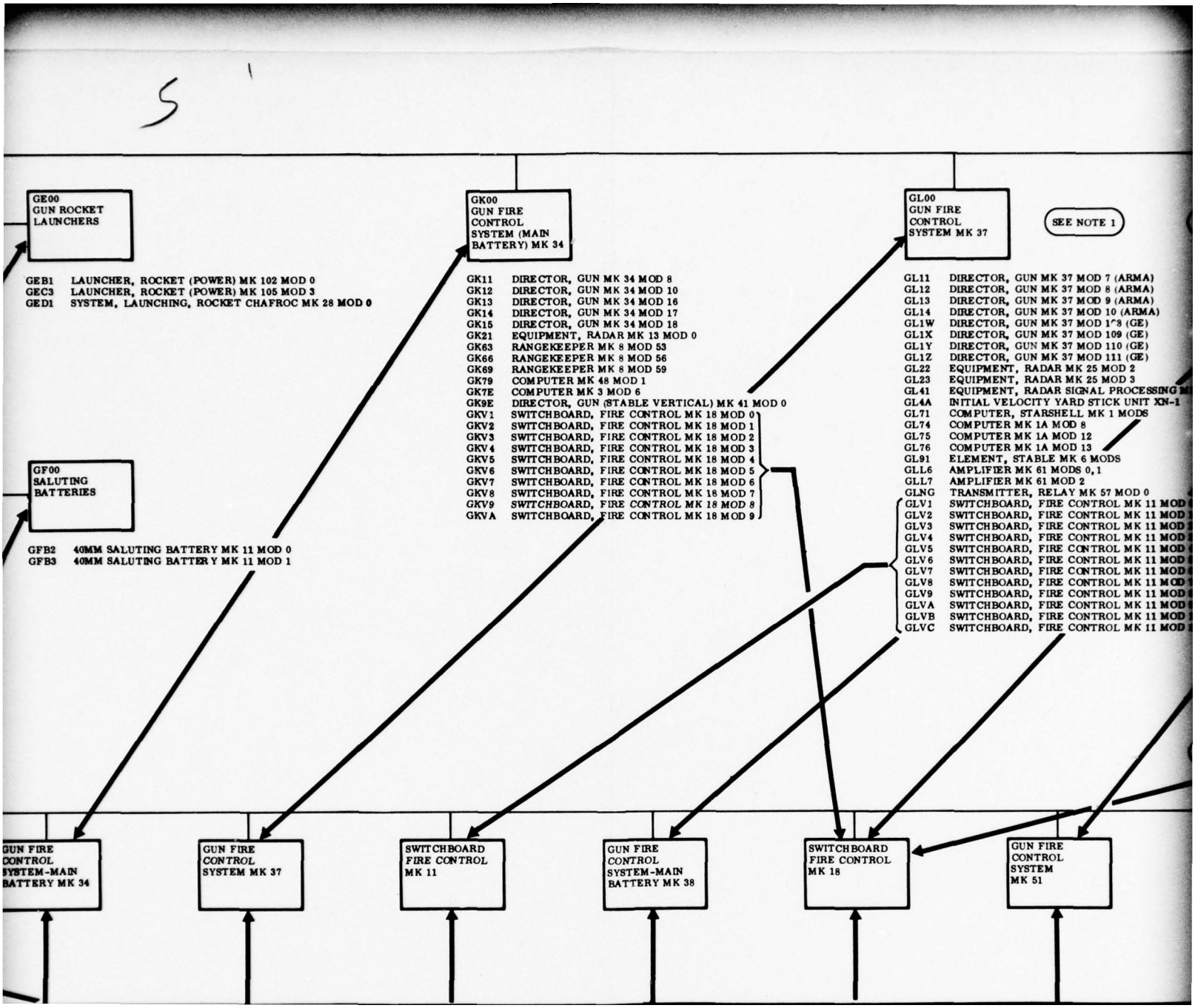
2-1

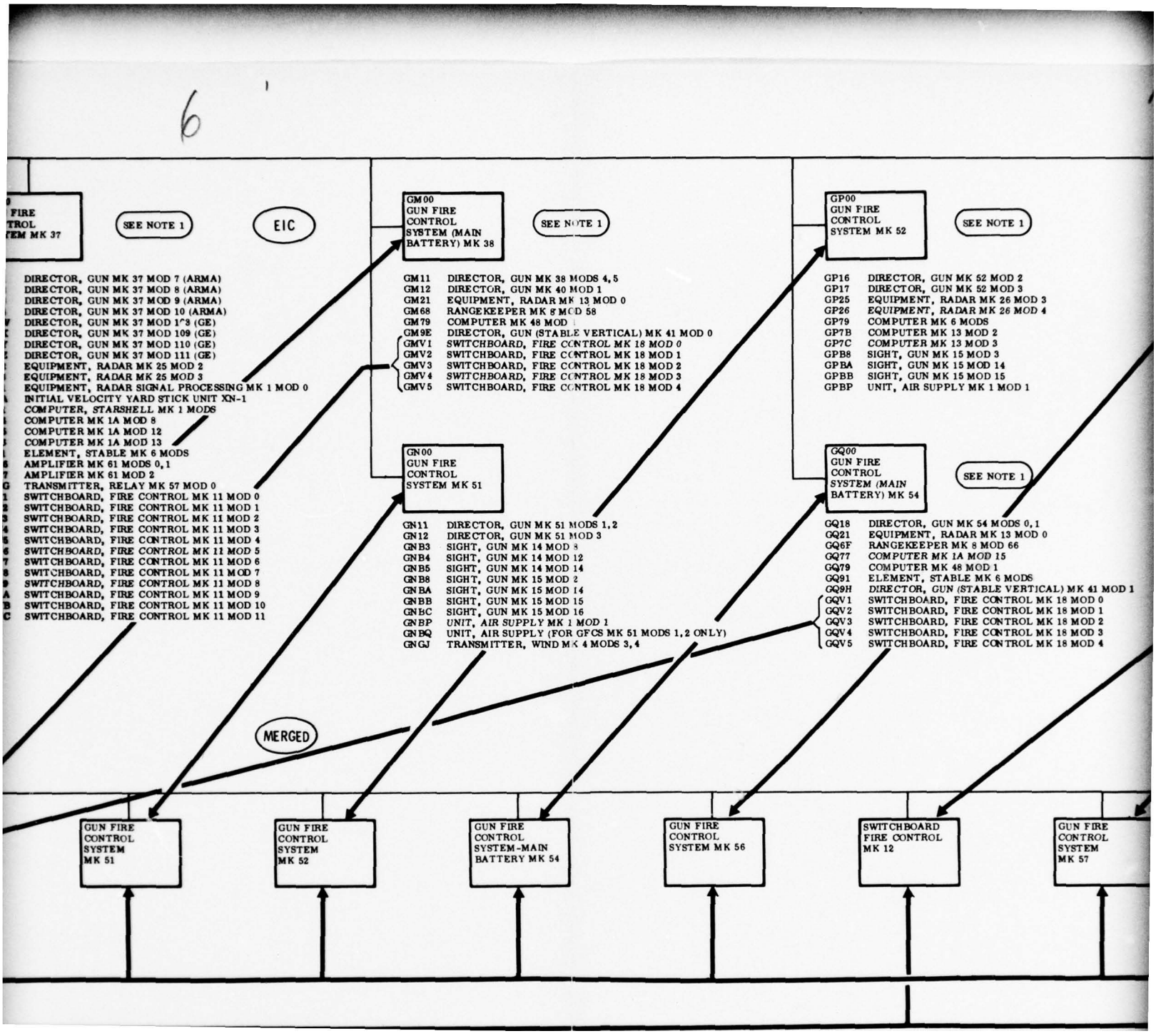

MK 51 MOD 13
MK 51 MOD 14
/SPG-52
/SPG-52A
6 MODS
ZE MK 112 MODS 0,1
31 MODS 1-5
RAIN PARALLAX MK 5 MODS 0 THRU 11
UN ORDER MK 2 MODS 0,1
UN ORDER MK 3 MODS 0,2
10 MOD 0
10 MOD 1
121 MODS 1,2
RAIN MK 2 MOD 5
G400
GUN FIRE CONTROL SYSTEM MK 87
G411 CONSOLE, FIRE CONTROL MK 75 MOD 0
G421 SIGHT, OPTICAL MK 33 MOD 0
G431 ANTENNA, RADAR MK 35 MOD 0
G441 EQUIPMENT, RADAR, AUXILIARY MK 54 MOD 0
G451 EQUIPMENT, RADAR MK 58 MOD 0
G461 CONSOLE, DISPLAY MK 76 MOD 0
G471 CONVERTER, SIGNAL DATA MK 64 MOD 0
G481 SUPPLY, POWER, RADAR EQUIPMENT MK 142 MOD 0
G491 PANEL, CONTROL MK 296 MOD 0
G4A1 CONVERTER, SIGNAL DATA MK 63 MOD 0
G4B1 PANEL, TEST, COMPUTER MK 297 MOD 0
G4C1 DRYER, WAVEGUIDE MK 1 MOD 0
G4D1 BOX, DISTRIBUTION MK 10 MOD 0
G4E1 SWITCH, SAFETY MK 129 MOD 0
G500
TARGET DESIGNATION SYSTEM MK 1
G5B6 UNIT, CONTROL MK 42 MODS 4,5
G5D2 PANEL, INDICATOR MK 2 MOD 1
G5D4 PANEL, INDICATOR MK 3 MOD 1
G5D5 PANEL, INDICATOR MK 5 MODS 0,1
G5D6 PANEL, INDICATOR MK 5 MOD 7
G5G3 TRANSMITTER, RELAY MK 18 MOD 3
G5J7 TRANSMITTER, TARGET DESIGNATION MK 19 MOD 7
G5L1 INDICATOR, GUN ELEVATION MK 54 MOD 1
G5L6 INDICATOR, GUN ELEVATION MK 60 MODS 0,1
G5M1 INDICATOR, BEARING AND RANGE MK 7 MODS 0-3
G600
TARGET DESIGNATION SYSTEM MK 3
G641 EQUIPMENT, DESIGNATION MK 3 MOD 0
G671 COMPUTER MK 82 MOD 0
G681 CONVERTER MK 5 MOD 0
G6D1 PANEL, INDICATOR MK 5 MOD 0
G6D8 PANEL, INDICATOR MK 5 MODS 13,14
G6E1 SUPPLY, POWER MK 62 MOD 1
G6F1 MONITOR OWN FLEET XN-1/S
G6J3 TRANSMITTER, TARGET DESIGNATION MK 19 MOD 2
G6L6 INDICATOR, GUN ELEVATION MK 60 MOD 0
G700
TARGET DESIGNATION SYSTEM MK 5
SEE NOTE 1
G711 GENERATOR, VIDEO MK 3 MOD 0
G712 GENERATOR, VIDEO MK 3 MOD 1
G713 GENERATOR, VIDEO MK 3 MOD 4
G722 CONVERTER, COORDINATE MK 26 MOD 0
G723 CONVERTER, COORDINATE MK 26 MOD 1
G724 CONVERTER,, COORDINATE MK 26 MOD 5
G731 INDICATOR, DESIGNATION MK 4 MOD 1
G735 INDICATOR, DESIGNATION MK 4 MOD 5
G7B1 UNIT, CONTROL MK 37 MODS 0,1
G7B3 UNIT, CONTROL MK 37 MODS 3-UP
G7D5 PANEL, INDICATOR MK 5 MODS 17-24
G7DA PANEL, INDICATOR MK 5 MOD 27
G7G4 TRANSMITTER, RELAY MK 32 MOD 4
G7J1 TRANSMITTER, TARGET DESIGNATION MK 19 MOD 0
G7J7 TRANSMITTER, TARGET DESIGNATION MK 19 MOD 7
FIRE CONTROL MK 16 MOD 0
FIRE CONTROL MK 16 MOD 1
FIRE CONTROL MK 16 MOD 2
FIRE CONTROL MK 16 MOD 3
FIRE CONTROL MK 16 MOD 4
FIRE CONTROL MK 16 MOD 5
FIRE CONTROL MK 16 MOD 6
FIRE CONTROL MK 16 MOD 7
FIRE CONTROL MK 16 MOD 8
FIRE CONTROL MK 16 MOD 9
GUN SYSTEMS
SWITCHBOARD FIRE CONTROL MK 16
TARGET DESIGNATION SYSTEM MK 1
GUN FIRE CONTROL SYSTEM MK 87
TARGET DESIGNATION SYSTEM MK 5
TARGET DESIGNATION SYSTEM MK 3
GUNAR SYSTEM MK 3

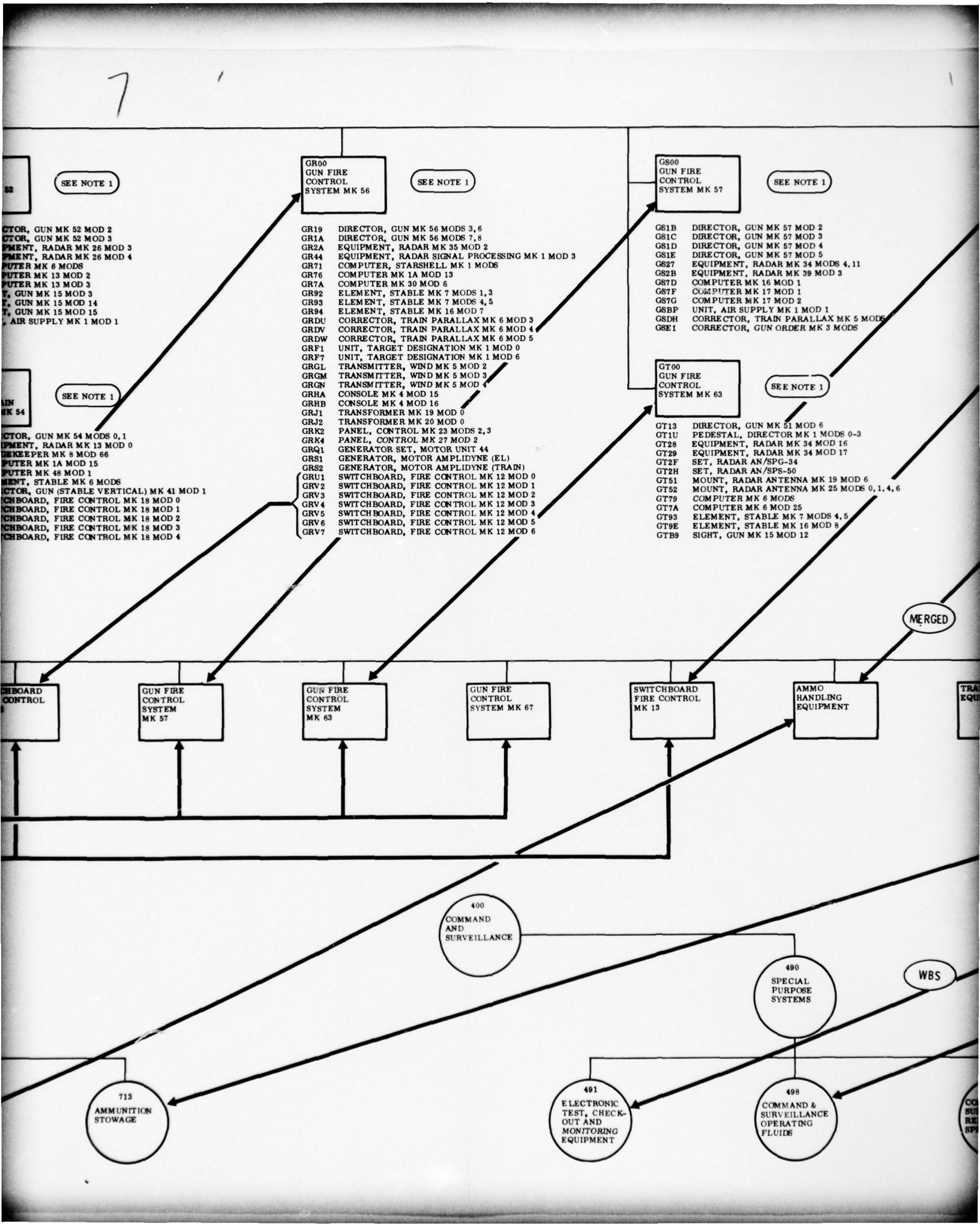
3 1

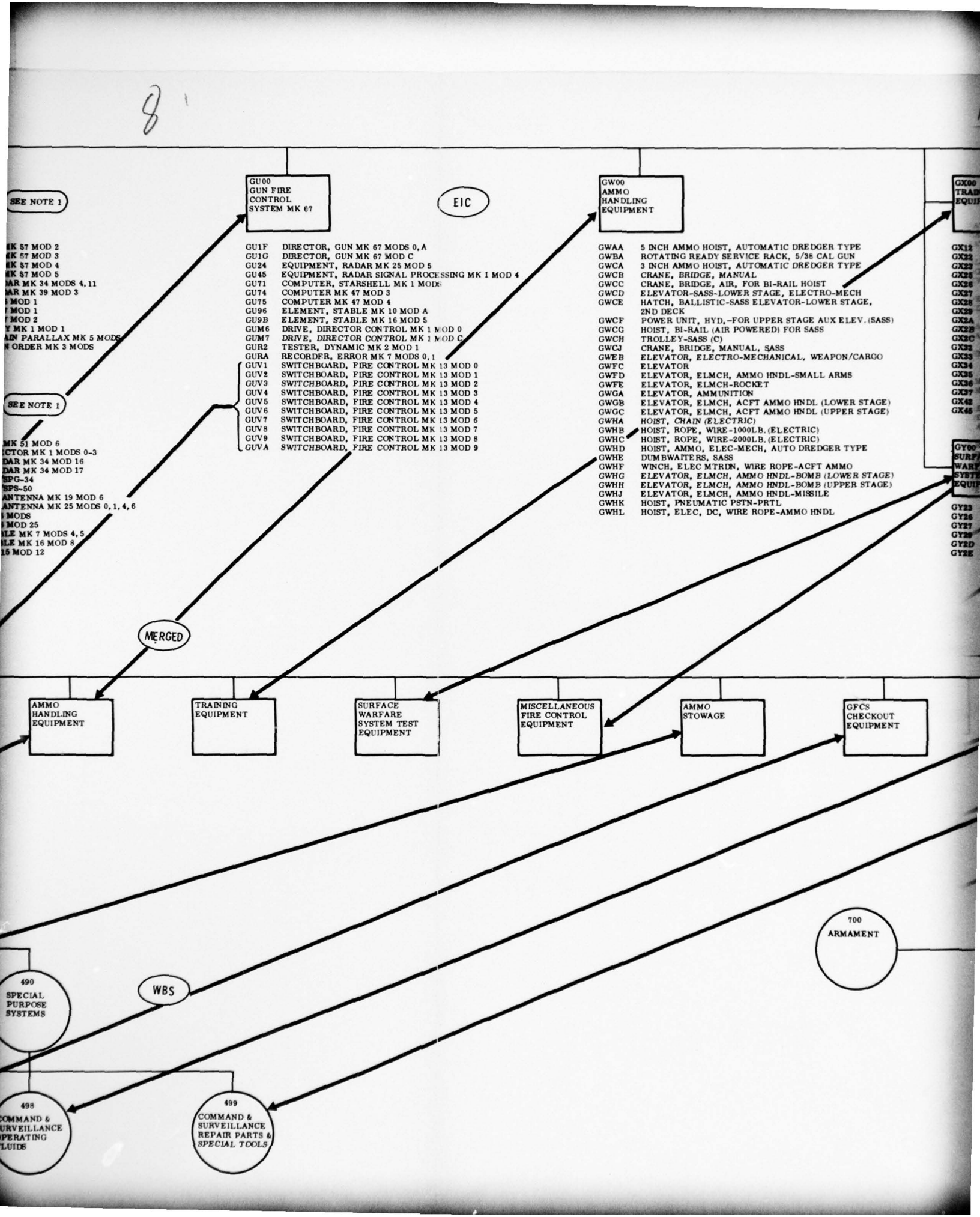

G800
TARGET
DESIGNATION
SYSTEM MK 6
SEE NOTE 1
EIC
GA00
GUN TURRETS
SEE NOTE 1
GB00
GUN MOUNTS
G811 GENERATOR, VIDEO MK 5 MOD 0
G821 CONVERTER, COORDINATE MK 23 MOD 0
G822 CONVERTER, COORDINATE MK 26 MOD 1
G831 INDICATOR, DESIGNATION MK 5 MOD 0
G832 INDICATOR, DESIGNATION MK 6 MOD 0
G853 CONSOLE MK 13 MOD 0
G854 CONSOLE MK 13 MOD 1
G891 CONVERTER, SCAN MK 25 MOD 0
G8A1 PLOTTER MK 14 MOD 1
G8BF UNIT, CONTROL MK 74 MOD 2
G8D9 PANEL, INDICATOR MK 5 MODS 17, 23
G8DA PANEL, INDICATOR MK 5 MOD 27
G8E6 SUPPLY, POWER MK 76 MOD 0
G8J1 TRANSMITTER, TARGET DESIGNATION MK 19 MOD 1
GA12 8/55 3 GUN TURRET RF
GA1A SWITCHBOARD, FIRE CONTROL MK 20 MOD 0
GA1B SWITCHBOARD, FIRE CONTROL MK 20 MOD 1
GA1C SWITCHBOARD, FIRE CONTROL MK 20 MOD 2
GA1D SWITCHBOARD, FIRE CONTROL MK 20 MOD 3
GA1E SWITCHBOARD, FIRE CONTROL MK 20 MOD 4
GA1F SWITCHBOARD, FIRE CONTROL MK 20 MOD 5
GA1G SWITCHBOARD, FIRE CONTROL MK 20 MOD 6
GA32 8/55 3 GUN TURRET SF
GA3A SWITCHBOARD, FIRE CONTROL MK 23 MOD 0
GA3B SWITCHBOARD, FIRE CONTROL MK 23 MOD 1
GA3C SWITCHBOARD, FIRE CONTROL MK 23 MOD 2
GA3D SWITCHBOARD, FIRE CONTROL MK 23 MOD 3
GA3E SWITCHBOARD, FIRE CONTROL MK 23 MOD 4
GA3F SWITCHBOARD, FIRE CONTROL MK 23 MOD 5
GA3G SWITCHBOARD, FIRE CONTROL MK 23 MOD 6
GA72 6/47 TRIPLE GUN TURRET SF
GA7A SWITCHBOARD, FIRE CONTROL MK 19 MOD 0
GA7B SWITCHBOARD, FIRE CONTROL MK 19 MOD 1
GA7C SWITCHBOARD, FIRE CONTROL MK 19 MOD 2
GA7D SWITCHBOARD, FIRE CONTROL MK 19 MOD 3
GA7E SWITCHBOARD, FIRE CONTROL MK 19 MOD 4
GA7F SWITCHBOARD, FIRE CONTROL MK 19 MOD 5
GA7G SWITCHBOARD, FIRE CONTROL MK 19 MOD 6
GA92 16/50 3 GUN TURRET
GA9A SWITCHBOARD, FIRE CONTROL MK 21 MOD 0
GA9B SWITCHBOARD, FIRE CONTROL MK 21 MOD 1
GA9C SWITCHBOARD, FIRE CONTROL MK 24 MOD 0
GA9D SWITCHBOARD, FIRE CONTROL MK 21 MOD 2
GA9E SWITCHBOARD, FIRE CONTROL MK 21 MOD 3
GA9F SWITCHBOARD, FIRE CONTROL MK 21 MOD 4
GA9G SWITCHBOARD, FIRE CONTROL MK 21 MOD 5
GA9H SWITCHBOARD, FIRE CONTROL MK 21 MOD 6
GA9L SWITCHBOARD, FIRE CONTROL MK 24 MOD 1
GB13 MOUNT, 5
GB14 MOUNT, 5
GB15 MOUNT, 5
GB17 MOUNT, 5
GB18 MOUNT, 5
GB19 MOUNT, 5
GB1A MOUNT, 5
GB1B MOUNT, 5
GB22 MOUNT, 6
GB31 MOUNT, 5
GB42 MOUNT, 5
GB43 MOUNT, 5
GB44 MOUNT, 5
GB45 MOUNT, 5
GB46 MOUNT, 5
GB4C MOUNT, 5
GB4F MOUNT, 5
GB53 MOUNT, 5
GB55 MOUNT, 5
GB56 MOUNT, 5
GB59 MOUNT, 5
GB5C MOUNT, 5
GB5D MOUNT, 5
GB62 MOUNT, 5
GB63 MOUNT, 5
GB64 MOUNT, 5
GB65 MOUNT, 5
GB6D MOUNT, 5
GB6E MOUNT, 5
GB76 MOUNT, 5
GB77 MOUNT, 5
GB78 MOUNT, 5
GB7B MOUNT, 5
GB7D MOUNT, 5
G900
GUNAR
SYSTEM MK 3
G911 SET, RADAR AN/SPG-48
G921 MOUNT, RADAR ANTENNA MK 32 MOD 2
G931 CONSOLE MK 7 MOD 4
G941 GYRO UNIT MK 1 MOD 1
G951 SUPPLY, POWER MK 60 MOD 1
G961 GUN RATE TIMER
G971 GUNAR UNIT TESTER
G981 TRANSFORMER, POWER
G991 AMPLIFIER MK 10 MOD 1
G9A1 CORRECTOR, TRAIN PARALLAX MK 5 MOD 1
G9B1 GENERATOR SET, MOTOR
MERGED
GUNAR
SYSTEM
MK 3
TARGET
DESIGNATION
SYSTEM MK 6
GUN TURRETS
GUN TURRETS
FCS
SWITCHBOARD
GUN MOUNTS
LIGHT WEIG
ALUMINUM
MOUNTS
400
COMMAND
AND
SURVEILLANCE
WBS

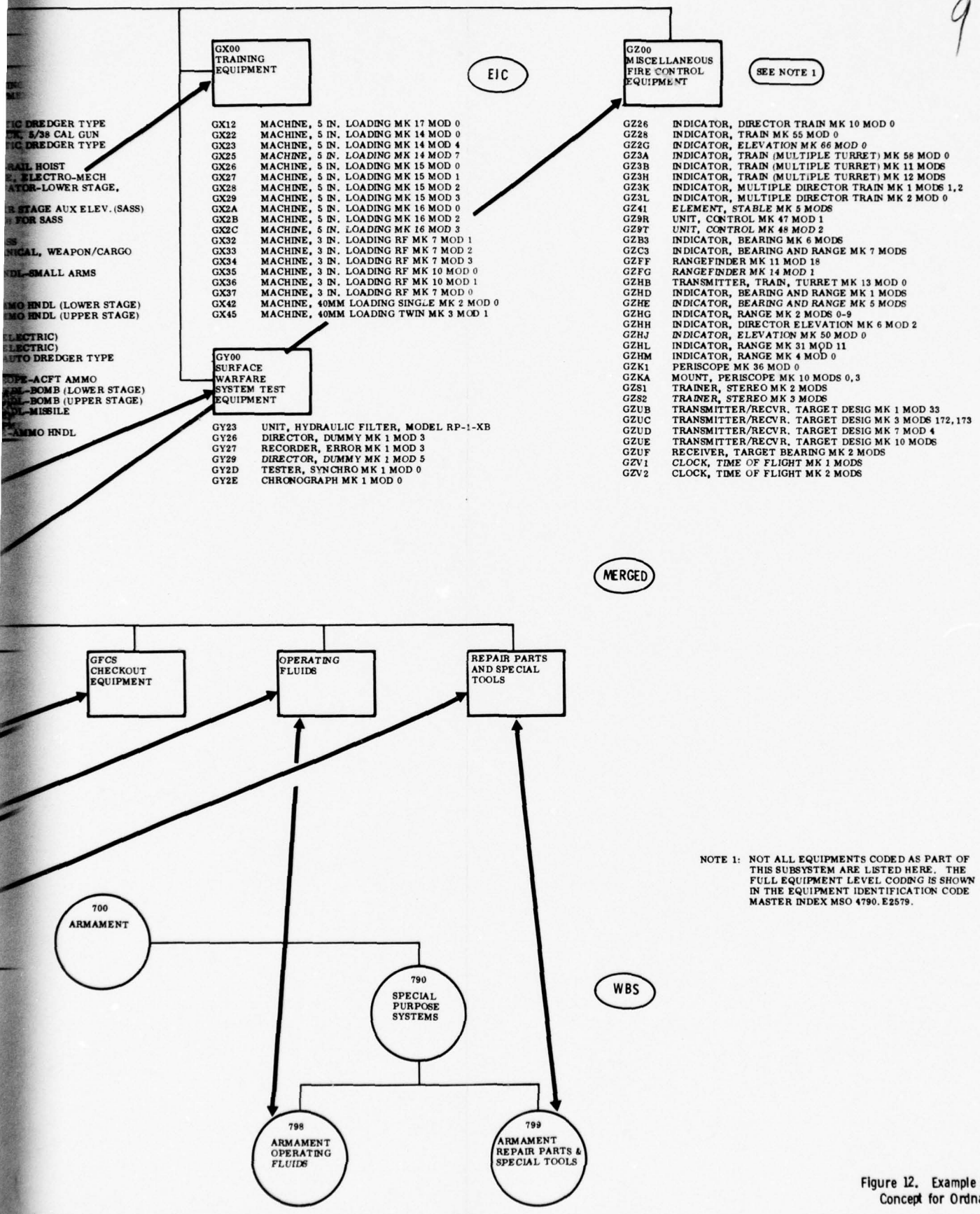

GB00
GUN MOUNTS
SEE NOTE 1
GB13 MOUNT, 5 IN. 54CAL, SINGLE RF MK 42 MOD 3
GB14 MOUNT, 5 IN. 54CAL, SINGLE RF MK 42 MOD 4
GB15 MOUNT, 5 IN. 54CAL, SINGLE RF MK 42 MOD 5
GB17 MOUNT, 5 IN. 54CAL, SINGLE RF MK 42 MOD 7
GB18 MOUNT, 5 IN. 54CAL, SINGLE RF MK 42 MOD 8
GB19 MOUNT, 5 IN. 54CAL, SINGLE RF MK 42 MOD 9
GB1A MOUNT, 5 IN. 54CAL, SINGLE RF MK 42 MOD 1
GB1B MOUNT, 5 IN. 54CAL, SINGLE RF MK 42 MOD 10
GB22 MOUNT, 5 IN. 54CAL, SINGLE SF MK 39 MOD 0
GB31 MOUNT, 5 IN. 38CAL, TWIN DP MK 28 MOD 0
GB42 MOUNT, 5 IN. 38CAL, TWIN DP MK 38 MOD 1
GB43 MOUNT, 5 IN. 38CAL, TWIN DP MK 38 MOD 0
GB44 MOUNT, 5 IN. 38CAL, TWIN DP MK 38 MOD 3
GB45 MOUNT, 5 IN. 38CAL, TWIN DP MK 38 MOD 4
GB46 MOUNT, 5 IN. 38CAL, TWIN DP MK 38 MOD 5
GB4C MOUNT, 5 IN. 38CAL, TWIN DP MK 38 MOD 11
GB4F MOUNT, 5 IN. 38CAL, TWIN DP MK 38 MOD 12
GB53 MOUNT, 5 IN. 38CAL, SINGLE MK 37 MOD 1
GB55 MOUNT, 5 IN. 38CAL, SINGLE MK 37 MOD 5
GB56 MOUNT, 5 IN. 38CAL, SINGLE MK 37 MOD 6
GB59 MOUNT, 5 IN. 38CAL, SINGLE MK 37 MOD 9
GB5C MOUNT, 5 IN. 38CAL, SINGLE MK 37 MOD 12
GB5D MOUNT, 5 IN. 38CAL, SINGLE MK 37 MOD 13
GB62 MOUNT, 5 IN. 38CAL, TWIN DP MK 32 MOD 0
GB63 MOUNT, 5 IN. 38CAL, TWIN DP MK 32 MOD 2
GB64 MOUNT, 5 IN. 38CAL, TWIN DP MK 32 MOD 3
GB65 MOUNT, 5 IN. 38CAL, TWIN DP MK 32 MOD 4
GB6D MOUNT, 5 IN. 38CAL, TWIN DP MK 32 MOD 12
GB6E MOUNT, 5 IN. 38CAL, TWIN DP MK 32 MOD 13
GB76 MOUNT, 5 IN. 38CAL, SINGLE MK 30 MOD 6
GB77 MOUNT, 5 IN. 38CAL, SINGLE MK 30 MOD 12
GB78 MOUNT, 5 IN. 38CAL, SINGLE MK 30 MOD 13
GB7B MOUNT, 5 IN. 38CAL, SINGLE MK 30 MOD 16
GB7D MOUNT, 5 IN. 38CAL, SINGLE MK 30 MOD 18
GC00
LIGHT WEIGHT
(ALUMINUM)
MOUNTS
GC11 MOUNT, GUN 5 INCH 54 CAL. RF MK 45 MOD 0
GD00
AA MACHINE
GUNS
SEE NOTE 1
GDC6 MOUNT, 40MM QUADR MK 2 MOD 5
GDCF MOUNT, 40MM QUADR MK 2 MOD 14
GDCK MOUNT, 40MM QUADR MK 2 MOD 18
GDCS MOUNT, 40MM QUADR MK 2 MOD 35
GDCW MOUNT, 40MM QUADR MK 2 MOD 39
GDE3 MOUNT, 40MM TWIN MK 1 MOD 2
GDE7 MOUNT, 40MM TWIN MK 1 MOD 6
GDL2 MOUNT, 40MM SINGLE M3 SK108069
GDM2 MOUNT, 40MM SINGLE MK 3 MOD 0 SK108069
GDM5 MOUNT, 40MM SINGLE MK 3 MOD 4
GDN1 MOUNT, 20MM SINGLE MK 4 MOD 0
GDN2 MOUNT, 20MM SINGLE MK 4 MOD 1
GDN3 MOUNT, 20MM SINGLE MK 4 MOD 2
GDQ6 MOUNT, 20MM TWIN MK 24 MOD 5
GDQ7 MOUNT, 20MM TWIN MK 24 MOD 6
GDR2 MOUNT, 20MM SINGLE MK 10 MOD 1
GDR5 MOUNT, 20MM SINGLE MK 10 MOD 4
GDR6 MOUNT, 20MM SINGLE MK 10 MOD 0
GDRJ MOUNT, 20MM SINGLE MK 10 MOD 17
GDRM MOUNT, 20MM SINGLE MK 10 MOD 16
GDRQ MOUNT, 20MM SINGLE MK 10 MOD 23
GDRX MOUNT, 20MM SINGLE MK 10 MOD 29
GDRZ MOUNT, 20MM SINGLE MK 10 MOD 32
GE00
GUN ROCKET
LAUNCHERS
GEB1 LAUNCHER, ROCKET (POWER)
GEC3 LAUNCHER, ROCKET (POWER)
GED1 SYSTEM, LAUNCHING, ROCKET
GF00
SALUTING
BATTERIES
GFB2 40MM SALUTING BATTERY MK
GFB3 40MM SALUTING BATTERY MK
LIGHT WEIGHT
ALUMINUM
MOUNTS
AA MACHINE
GUNS
GUN ROCKET
LAUNCHERS
SALUTING
BATTERIES
GUN FIRE
CONTROL
SYSTEM-MAIN
BATTERY MK 34


GE00
GUN ROCKET LAUNCHERS
GEB1 LAUNCHER, ROCKET (POWER) MK 102 MOD 0
GEC3 LAUNCHER, ROCKET (POWER) MK 105 MOD 3
GED1 SYSTEM, LAUNCHING, ROCKET CHAFROC MK 28 MOD 0
GF00
SALUTING BATTERIES
GFB2 40MM SALUTING BATTERY MK 11 MOD 0
GFB3 40MM SALUTING BATTERY MK 11 MOD 1
GK00
GUN FIRE CONTROL SYSTEM (MAIN BATTERY) MK 34
GK11 DIRECTOR, GUN MK 34 MOD 8
GK12 DIRECTOR, GUN MK 34 MOD 10
GK13 DIRECTOR, GUN MK 34 MOD 16
GK14 DIRECTOR, GUN MK 34 MOD 17
GK15 DIRECTOR, GUN MK 34 MOD 18
GK21 EQUIPMENT, RADAR MK 13 MOD 0
GK63 RANGEKEEPER MK 8 MOD 53
GK66 RANGEKEEPER MK 8 MOD 56
GK69 RANGEKEEPER MK 8 MOD 59
GK79 COMPUTER MK 48 MOD 1
GK7E COMPUTER MK 3 MOD 6
GK9E DIRECTOR, GUN (STABLE VERTICAL) MK 41 MOD 0
GKV1 SWITCHBOARD, FIRE CONTROL MK 18 MOD 0
GKV2 SWITCHBOARD, FIRE CONTROL MK 18 MOD 1
GKV3 SWITCHBOARD, FIRE CONTROL MK 18 MOD 2
GKV4 SWITCHBOARD, FIRE CONTROL MK 18 MOD 3
GKV5 SWITCHBOARD, FIRE CONTROL MK 18 MOD 4
GKV6 SWITCHBOARD, FIRE CONTROL MK 18 MOD 5
GKV7 SWITCHBOARD, FIRE CONTROL MK 18 MOD 6
GKV8 SWITCHBOARD, FIRE CONTROL MK 18 MOD 7
GKV9 SWITCHBOARD, FIRE CONTROL MK 18 MOD 8
GKVA SWITCHBOARD, FIRE CONTROL MK 18 MOD 9
GL00
GUN FIRE CONTROL SYSTEM MK 37
SEE NOTE 1
GL11 DIRECTOR, GUN MK 37 MOD 7 (ARMA)
GL12 DIRECTOR, GUN MK 37 MOD 8 (ARMA)
GL13 DIRECTOR, GUN MK 37 MOD 9 (ARMA)
GL14 DIRECTOR, GUN MK 37 MOD 10 (ARMA)
GL1W DIRECTOR, GUN MK 37 MOD 108 (GE)
GL1X DIRECTOR, GUN MK 37 MOD 109 (GE)
GL1Y DIRECTOR, GUN MK 37 MOD 110 (GE)
GL1Z DIRECTOR, GUN MK 37 MOD 111 (GE)
GL22 EQUIPMENT, RADAR MK 25 MOD 2
GL23 EQUIPMENT, RADAR MK 25 MOD 3
GL41 EQUIPMENT, RADAR SIGNAL PROCESSING
GL4A INITIAL VELOCITY YARD STICK UNIT XN-1
GL71 COMPUTER, STARSHELL MK 1 MODS
GL74 COMPUTER MK 1A MOD 8
GL75 COMPUTER MK 1A MOD 12
GL76 COMPUTER MK 1A MOD 13
GL91 ELEMENT, STABLE MK 6 MODS
GLL6 AMPLIFIER MK 61 MODS 0, 1
GLL7 AMPLIFIER MK 61 MOD 2
GLNG TRANSMITTER, RELAY MK 57 MOD 0
GLV1 SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLV2 SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLV3 SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLV4 SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLV5 SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLV6 SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLV7 SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLV8 SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLV9 SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLVA SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLVB SWITCHBOARD, FIRE CONTROL MK 11 MOD
GLVC SWITCHBOARD, FIRE CONTROL MK 11 MOD
GUN FIRE CONTROL SYSTEM-MAIN BATTERY MK 34
GUN FIRE CONTROL SYSTEM MK 37
SWITCHBOARD FIRE CONTROL MK 11
GUN FIRE CONTROL SYSTEM-MAIN BATTERY MK 38
SWITCHBOARD FIRE CONTROL MK 18
GUN FIRE CONTROL SYSTEM MK 51


6
FIRE
TROL
TEM MK 37
SEE NOTE 1
EIC
DIRECTOR, GUN MK 37 MOD 7 (ARMA)
DIRECTOR, GUN MK 37 MOD 8 (ARMA)
DIRECTOR, GUN MK 37 MOD 9 (ARMA)
DIRECTOR, GUN MK 37 MOD 10 (ARMA)
DIRECTOR, GUN MK 37 MOD 107 (GE)
DIRECTOR, GUN MK 37 MOD 109 (GE)
DIRECTOR, GUN MK 37 MOD 110 (GE)
DIRECTOR, GUN MK 37 MOD 111 (GE)
EQUIPMENT, RADAR MK 25 MOD 2
EQUIPMENT, RADAR MK 25 MOD 3
EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 0
INITIAL VELOCITY YARD STICK UNIT XN-1
COMPUTER, STARSHELL MK 1 MODS
COMPUTER MK 1A MOD 8
COMPUTER MK 1A MOD 12
COMPUTER MK 1A MOD 13
ELEMENT, STABLE MK 6 MODS
AMPLIFIER MK 61 MODS 0, 1
AMPLIFIER MK 61 MOD 2
TRANSMITTER, RELAY MK 57 MOD 0
SWITCHBOARD, FIRE CONTROL MK 11 MOD 0
SWITCHBOARD, FIRE CONTROL MK 11 MOD 1
SWITCHBOARD, FIRE CONTROL MK 11 MOD 2
SWITCHBOARD, FIRE CONTROL MK 11 MOD 3
SWITCHBOARD, FIRE CONTROL MK 11 MOD 4
SWITCHBOARD, FIRE CONTROL MK 11 MOD 5
SWITCHBOARD, FIRE CONTROL MK 11 MOD 6
SWITCHBOARD, FIRE CONTROL MK 11 MOD 7
SWITCHBOARD, FIRE CONTROL MK 11 MOD 8
SWITCHBOARD, FIRE CONTROL MK 11 MOD 9
SWITCHBOARD, FIRE CONTROL MK 11 MOD 10
SWITCHBOARD, FIRE CONTROL MK 11 MOD 11
GM00
GUN FIRE CONTROL SYSTEM (MAIN BATTERY) MK 38
SEE NOTE 1
GM11 DIRECTOR, GUN MK 38 MODS 4, 5
GM12 DIRECTOR, GUN MK 40 MOD 1
GM21 EQUIPMENT, RADAR MK 13 MOD 0
GM68 RANGEKEEPER MK 8 MOD 58
GM79 COMPUTER MK 48 MOD 1
GM9E DIRECTOR, GUN (STABLE VERTICAL) MK 41 MOD 0
GMV1 SWITCHBOARD, FIRE CONTROL MK 18 MOD 0
GMV2 SWITCHBOARD, FIRE CONTROL MK 18 MOD 1
GMV3 SWITCHBOARD, FIRE CONTROL MK 18 MOD 2
GMV4 SWITCHBOARD, FIRE CONTROL MK 18 MOD 3
GMV5 SWITCHBOARD, FIRE CONTROL MK 18 MOD 4
GN00
GUN FIRE CONTROL SYSTEM MK 51
GN11 DIRECTOR, GUN MK 51 MODS 1, 2
GN12 DIRECTOR, GUN MK 51 MOD 3
GNB3 SIGHT, GUN MK 14 MOD 8
GNB4 SIGHT, GUN MK 14 MOD 12
GNB5 SIGHT, GUN MK 14 MOD 14
GNB8 SIGHT, GUN MK 15 MOD 2
GNBA SIGHT, GUN MK 15 MOD 14
GNBB SIGHT, GUN MK 15 MOD 15
GNBC SIGHT, GUN MK 15 MOD 16
GNBP UNIT, AIR SUPPLY MK 1 MOD 1
GNBQ UNIT, AIR SUPPLY (FOR GFCS MK 51 MODS 1, 2 ONLY)
GNGJ TRANSMITTER, WIND MK 4 MODS 3, 4
GP00
GUN FIRE CONTROL SYSTEM MK 52
SEE NOTE 1
GP16 DIRECTOR, GUN MK 52 MOD 2
GP17 DIRECTOR, GUN MK 52 MOD 3
GP25 EQUIPMENT, RADAR MK 26 MOD 3
GP26 EQUIPMENT, RADAR MK 26 MOD 4
GP79 COMPUTER MK 6 MODS
GP7B COMPUTER MK 13 MOD 2
GP7C COMPUTER MK 13 MOD 3
GPB8 SIGHT, GUN MK 15 MOD 3
GPBA SIGHT, GUN MK 15 MOD 14
GPBB SIGHT, GUN MK 15 MOD 15
GPBP UNIT, AIR SUPPLY MK 1 MOD 1
GQ00
GUN FIRE CONTROL SYSTEM (MAIN BATTERY) MK 54
SEE NOTE 1
GQ18 DIRECTOR, GUN MK 54 MODS 0, 1
GQ21 EQUIPMENT, RADAR MK 13 MOD 0
GQ6F RANGEKEEPER MK 8 MOD 66
GQ77 COMPUTER MK 1A MOD 15
GQ79 COMPUTER MK 48 MOD 1
GQ91 ELEMENT, STABLE MK 6 MODS
GQ9H DIRECTOR, GUN (STABLE VERTICAL) MK 41 MOD 1
GQV1 SWITCHBOARD, FIRE CONTROL MK 18 MOD 0
GQV2 SWITCHBOARD, FIRE CONTROL MK 18 MOD 1
GQV3 SWITCHBOARD, FIRE CONTROL MK 18 MOD 2
GQV4 SWITCHBOARD, FIRE CONTROL MK 18 MOD 3
GQV5 SWITCHBOARD, FIRE CONTROL MK 18 MOD 4
MERGED
GUN FIRE CONTROL SYSTEM MK 51
GUN FIRE CONTROL SYSTEM MK 52
GUN FIRE CONTROL SYSTEM-MAIN BATTERY MK 54
GUN FIRE CONTROL SYSTEM MK 56
SWITCHBOARD FIRE CONTROL MK 12
GUN FIRE CONTROL SYSTEM MK 57

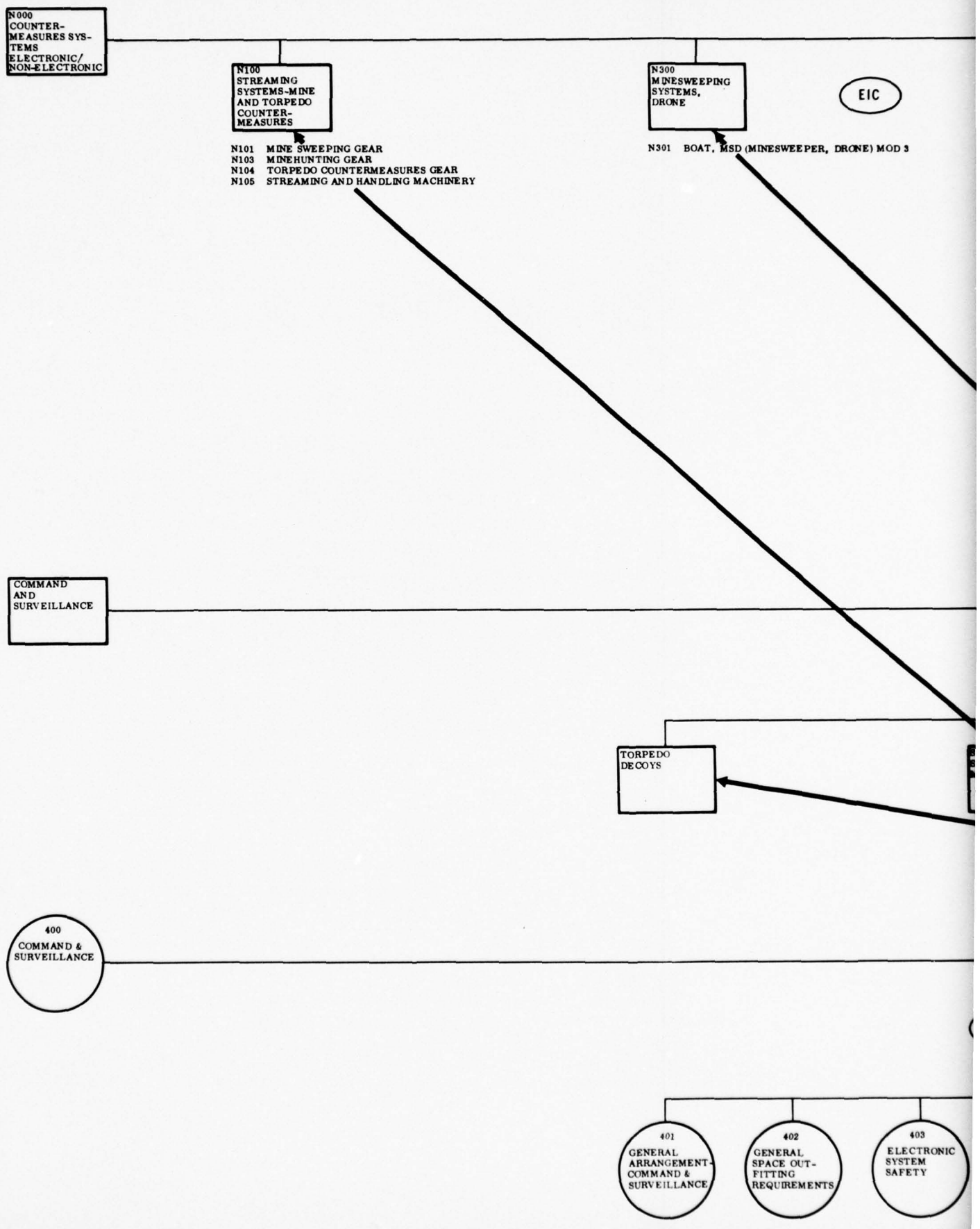

SEE NOTE 1
CTOR, GUN MK 52 MOD 2
CTOR, GUN MK 52 MOD 3
PMENT, RADAR MK 26 MOD 3
PMENT, RADAR MK 26 MOD 4
PUTER MK 6 MODS
PUTER MK 13 MOD 2
PUTER MK 13 MOD 3
T, GUN MK 15 MOD 3
T, GUN MK 15 MOD 14
T, GUN MK 15 MOD 15
, AIR SUPPLY MK 1 MOD 1
SEE NOTE 1
CTOR, GUN MK 54 MODS 0, 1
IPMENT, RADAR MK 13 MOD 0
GEKEEPER MK 8 MOD 66
PUTER MK 1A MOD 15
PUTER MK 48 MOD 1
MENT, STABLE MK 6 MODS
CTOR, GUN (STABLE VERTICAL) MK 41 MOD 1
CHBOARD, FIRE CONTROL MK 18 MOD 0
CHBOARD, FIRE CONTROL MK 18 MOD 1
CHBOARD, FIRE CONTROL MK 18 MOD 2
CHBOARD, FIRE CONTROL MK 18 MOD 3
CHBOARD, FIRE CONTROL MK 18 MOD 4
GR00
GUN FIRE CONTROL SYSTEM MK 56
SEE NOTE 1
GR19 DIRECTOR, GUN MK 56 MODS 3, 6
GR1A DIRECTOR, GUN MK 56 MODS 7, 8
GR2A EQUIPMENT, RADAR MK 35 MOD 2
GR44 EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 3
GR71 COMPUTER, STARSHELL MK 1 MODS
GR76 COMPUTER MK 1A MOD 13
GR7A COMPUTER MK 30 MOD 6
GR92 ELEMENT, STABLE MK 7 MODS 1, 3
GR93 ELEMENT, STABLE MK 7 MODS 4, 5
GR94 ELEMENT, STABLE MK 16 MOD 7
GRDU CORRECTOR, TRAIN PARALLAX MK 6 MOD 3
GRDV CORRECTOR, TRAIN PARALLAX MK 6 MOD 4
GRDW CORRECTOR, TRAIN PARALLAX MK 6 MOD 5
GRF1 UNIT, TARGET DESIGNATION MK 1 MOD 0
GRF7 UNIT, TARGET DESIGNATION MK 1 MOD 6
GRGL TRANSMITTER, WIND MK 5 MOD 2
GRGM TRANSMITTER, WIND MK 5 MOD 3
GRGN TRANSMITTER, WIND MK 5 MOD 4
GRHA CONSOLE MK 4 MOD 15
GRHB CONSOLE MK 4 MOD 16
GRJ1 TRANSFORMER MK 19 MOD 0
GRJ2 TRANSFORMER MK 20 MOD 0
GRK2 PANEL, CONTROL MK 23 MODS 2, 3
GRK4 PANEL, CONTROL MK 27 MOD 2
GRQ1 GENERATOR SET, MOTOR UNIT 44
GRS1 GENERATOR, MOTOR AMPLIDYNE (EL)
GRS2 GENERATOR, MOTOR AMPLIDYNE (TRAIN)
GRU1 SWITCHBOARD, FIRE CONTROL MK 12 MOD 0
GRV2 SWITCHBOARD, FIRE CONTROL MK 12 MOD 1
GRV3 SWITCHBOARD, FIRE CONTROL MK 12 MOD 2
GRV4 SWITCHBOARD, FIRE CONTROL MK 12 MOD 3
GRV5 SWITCHBOARD, FIRE CONTROL MK 12 MOD 4
GRV6 SWITCHBOARD, FIRE CONTROL MK 12 MOD 5
GRV7 SWITCHBOARD, FIRE CONTROL MK 12 MOD 6
GS00
GUN FIRE CONTROL SYSTEM MK 57
SEE NOTE 1
GS1B DIRECTOR, GUN MK 57 MOD 2
GS1C DIRECTOR, GUN MK 57 MOD 3
GS1D DIRECTOR, GUN MK 57 MOD 4
GS1E DIRECTOR, GUN MK 57 MOD 5
GS27 EQUIPMENT, RADAR MK 34 MODS 4, 11
GS2B EQUIPMENT, RADAR MK 39 MOD 3
GS7D COMPUTER MK 16 MOD 1
GS7F COMPUTER MK 17 MOD 1
GS7G COMPUTER MK 17 MOD 2
GSBP UNIT, AIR SUPPLY MK 1 MOD 1
GSDH CORRECTOR, TRAIN PARALLAX MK 5 MODS
GSE1 CORRECTOR, GUN ORDER MK 3 MODS
GT00
GUN FIRE CONTROL SYSTEM MK 63
SEE NOTE 1
GT13 DIRECTOR, GUN MK 51 MOD 6
GT1U PEDESTAL, DIRECTOR MK 1 MODS 0-3
GT28 EQUIPMENT, RADAR MK 34 MOD 16
GT29 EQUIPMENT, RADAR MK 34 MOD 17
GT2F SET, RADAR AN/SPG-34
GT2H SET, RADAR AN/SPS-50
GT51 MOUNT, RADAR ANTENNA MK 19 MOD 6
GT52 MOUNT, RADAR ANTENNA MK 25 MODS 0, 1, 4, 6
GT79 COMPUTER MK 6 MODS
GT7A COMPUTER MK 6 MOD 25
GT93 ELEMENT, STABLE MK 7 MODS 4, 5
GT9E ELEMENT, STABLE MK 16 MOD 8
GTB9 SIGHT, GUN MK 15 MOD 12
MERGED
CHBOARD CONTROL
GUN FIRE CONTROL SYSTEM MK 57
GUN FIRE CONTROL SYSTEM MK 63
GUN FIRE CONTROL SYSTEM MK 67
SWITCHBOARD FIRE CONTROL MK 13
AMMO HANDLING EQUIPMENT
TRA EQU
400 COMMAND AND SURVEILLANCE
490 SPECIAL PURPOSE SYSTEMS
WBS
713 AMMUNITION STOWAGE
491 ELECTRONIC TEST, CHECK-OUT AND MONITORING EQUIPMENT
498 COMMAND & SURVEILLANCE OPERATING FLUIDS

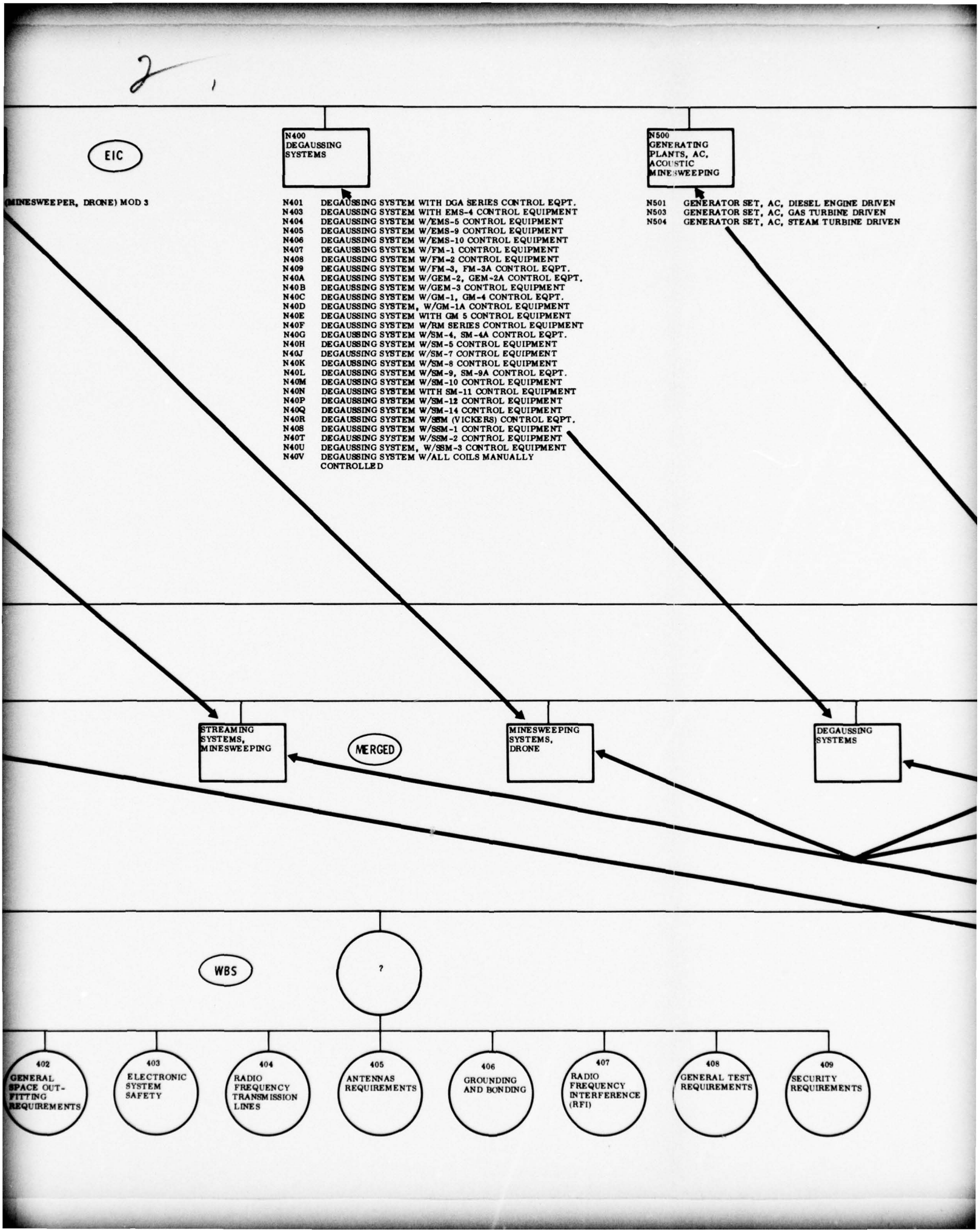

8
SEE NOTE 1
SEE NOTE 1
GU00
GUN FIRE CONTROL SYSTEM MK 67
EIC
GW00
AMMO HANDLING EQUIPMENT
GX00
TRAI
EQUI
GU1F DIRECTOR, GUN MK 67 MODS 0, A
GU1G DIRECTOR, GUN MK 67 MOD C
GU24 EQUIPMENT, RADAR MK 25 MOD 5
GU45 EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 4
GU71 COMPUTER, STARSHELL MK 1 MOD
GU74 COMPUTER MK 47 MOD 3
GU75 COMPUTER MK 47 MOD 4
GU96 ELEMENT, STABLE MK 10 MOD A
GU9B ELEMENT, STABLE MK 16 MOD 5
GUM6 DRIVE, DIRECTOR CONTROL MK 1 MOD 0
GUM7 DRIVE, DIRECTOR CONTROL MK 1 MOD C
GUR2 TESTER, DYNAMIC MK 2 MOD 1
GURA RECORDER, ERROR MK 7 MODS 0, 1
GUV1 SWITCHBOARD, FIRE CONTROL MK 13 MOD 0
GUV2 SWITCHBOARD, FIRE CONTROL MK 13 MOD 1
GUV3 SWITCHBOARD, FIRE CONTROL MK 13 MOD 2
GUV4 SWITCHBOARD, FIRE CONTROL MK 13 MOD 3
GUV5 SWITCHBOARD, FIRE CONTROL MK 13 MOD 4
GUV6 SWITCHBOARD, FIRE CONTROL MK 13 MOD 5
GUV7 SWITCHBOARD, FIRE CONTROL MK 13 MOD 6
GUV8 SWITCHBOARD, FIRE CONTROL MK 13 MOD 7
GUV9 SWITCHBOARD, FIRE CONTROL MK 13 MOD 8
GUVA SWITCHBOARD, FIRE CONTROL MK 13 MOD 9
GWAA 5 INCH AMMO HOIST, AUTOMATIC DREDGER TYPE
GWBA ROTATING READY SERVICE RACK, 5/38 CAL GUN
GWCA 3 INCH AMMO HOIST, AUTOMATIC DREDGER TYPE
GWCB CRANE, BRIDGE, MANUAL
GWCC CRANE, BRIDGE, AIR, FOR BI-RAIL HOIST
GWCD ELEVATOR-SASS-LOWER STAGE, ELECTRO-MECH
GWCE HATCH, BALLISTIC-SASS ELEVATOR-LOWER STAGE, 2ND DECK
GWCF POWER UNIT, HYD,-FOR UPPER STAGE AUX ELEV. (SASS)
GWCG HOIST, BI-RAIL (AIR POWERED) FOR SASS
GWCH TROLLEY-SASS (C)
GWCJ CRANE, BRIDGE, MANUAL, SASS
GWEB ELEVATOR, ELECTRO-MECHANICAL, WEAPON/CARGO
GWFC ELEVATOR
GWFD ELEVATOR, ELMCH, AMMO HNDL-SMALL ARMS
GWFE ELEVATOR, ELMCH-ROCKET
GWGA ELEVATOR, AMMUNITION
GWGB ELEVATOR, ELMCH, ACFT AMMO HNDL (LOWER STAGE)
GWGC ELEVATOR, ELMCH, ACFT AMMO HNDL (UPPER STAGE)
GWHA HOIST, CHAIN (ELECTRIC)
GWHB HOIST, ROPE, WIRE-1000LB. (ELECTRIC)
GWHC HOIST, ROPE, WIRE-2000LB. (ELECTRIC)
GWHD HOIST, AMMO, ELEC-MECH, AUTO DREDGER TYPE
GWHE DUMBWAITERS, SASS
GWHF WINCH, ELEC MTRDN, WIRE ROPE-ACFT AMMO
GWHG ELEVATOR, ELMCH, AMMO HNDL-BOMB (LOWER STAGE)
GWHH ELEVATOR, ELMCH, AMMO HNDL-BOMB (UPPER STAGE)
GWHJ ELEVATOR, ELMCH, AMMO HNDL-MISSILE
GWHK HOIST, PNEUMATIC PSTN-PRTL
GWHL HOIST, ELEC, DC, WIRE ROPE-AMMO HNDL
GX12
GX22
GX23
GX25
GX26
GX27
GX28
GX29
GX2A
GX2B
GX2C
GX32
GX33
GX34
GX35
GX36
GX37
GX42
GX45
GY00
SURF
WARF
SYST
EQUI
GY23
GY26
GY27
GY29
GY2D
GY2E
MK 51 MOD 6
ICTOR MK 1 MODS 0-3
DAR MK 34 MOD 16
DAR MK 34 MOD 17
SPG-34
SPS-50
ANTENNA MK 19 MOD 6
ANTENNA MK 25 MODS 0, 1, 4, 6
MODS
MOD 25
LE MK 7 MODS 4, 5
LE MK 16 MOD 8
15 MOD 12
MERGED
AMMO HANDLING EQUIPMENT
TRAINING EQUIPMENT
SURFACE WARFARE SYSTEM TEST EQUIPMENT
MISCELLANEOUS FIRE CONTROL EQUIPMENT
AMMO STOWAGE
GFCS CHECKOUT EQUIPMENT
700 ARMAMENT
WBS
490 SPECIAL PURPOSE SYSTEMS
498 COMMAND & SURVEILLANCE OPERATING FLUIDS
499 COMMAND & SURVEILLANCE REPAIR PARTS & SPECIAL TOOLS

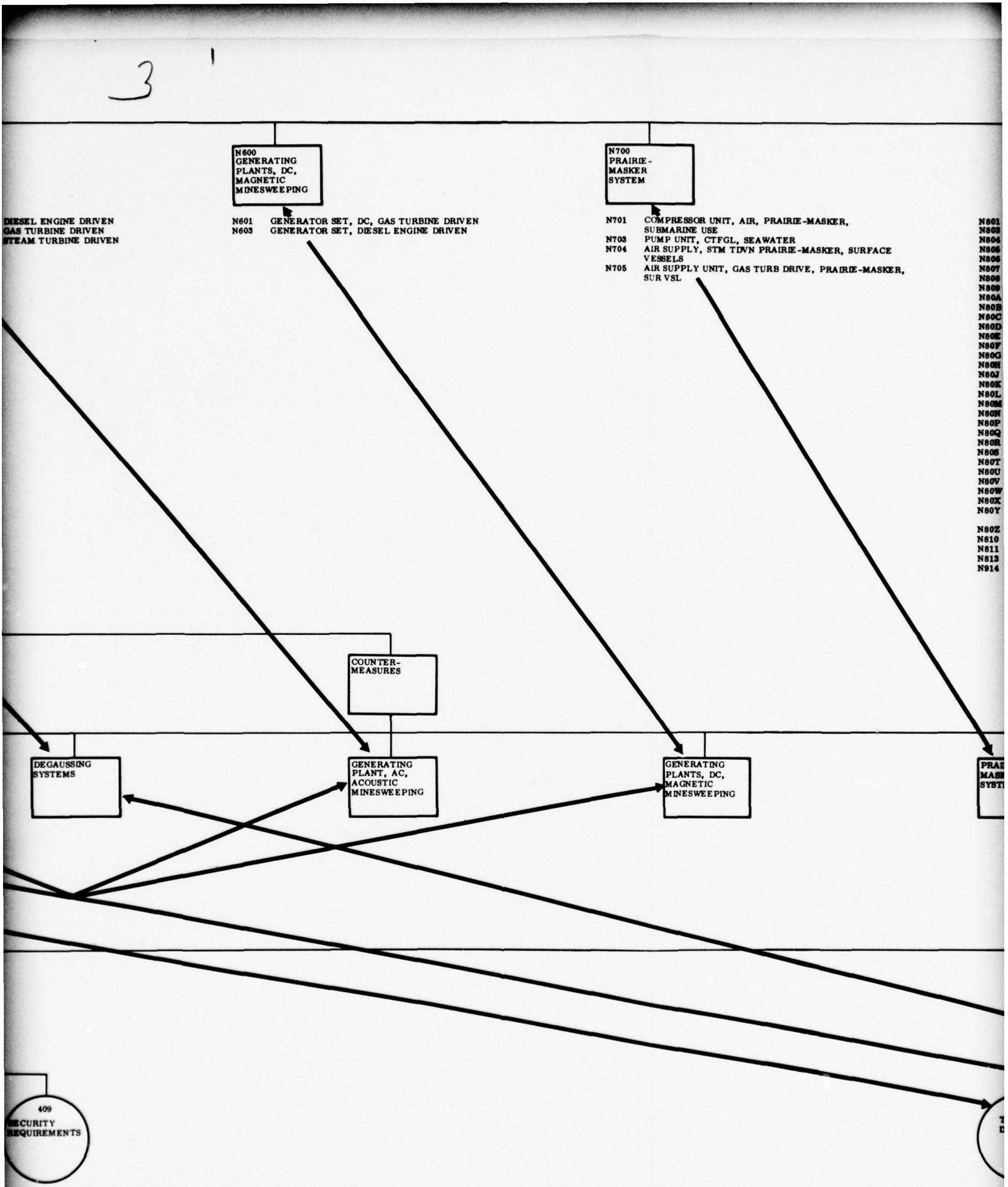


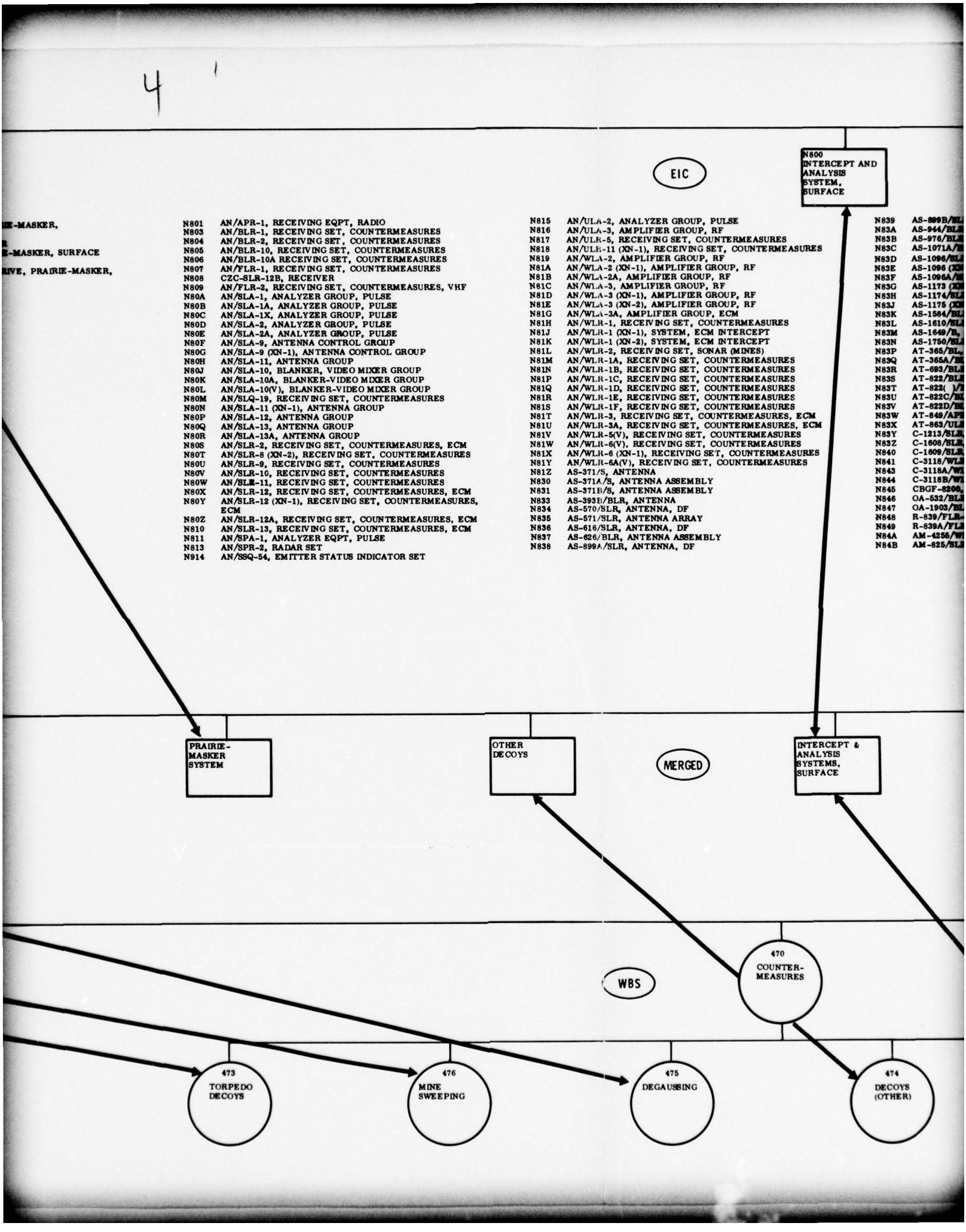
NOTE 1: NOT ALL EQUIPMENTS CODED AS PART OF THIS SUBSYSTEM ARE LISTED HERE. THE FULL EQUIPMENT LEVEL CODING IS SHOWN IN THE EQUIPMENT IDENTIFICATION CODE MASTER INDEX MSO 4790.E2579.

Figure 12. Example of Merged Structure Concept for Ordnance Type System




2
EIC
(MINESWEEPER, DRONE) MOD 3
N400
DEGAUSSING
SYSTEMS
N401 DEGAUSSING SYSTEM WITH DGA SERIES CONTROL EQPT.
N403 DEGAUSSING SYSTEM WITH EMS-4 CONTROL EQUIPMENT
N404 DEGAUSSING SYSTEM W/EMS-5 CONTROL EQUIPMENT
N405 DEGAUSSING SYSTEM W/EMS-9 CONTROL EQUIPMENT
N406 DEGAUSSING SYSTEM W/EMS-10 CONTROL EQUIPMENT
N407 DEGAUSSING SYSTEM W/FM-1 CONTROL EQUIPMENT
N408 DEGAUSSING SYSTEM W/FM-2 CONTROL EQUIPMENT
N409 DEGAUSSING SYSTEM W/FM-3, FM-3A CONTROL EQPT.
N40A DEGAUSSING SYSTEM W/GEM-2, GEM-2A CONTROL EQPT.
N40B DEGAUSSING SYSTEM W/GEM-3 CONTROL EQUIPMENT
N40C DEGAUSSING SYSTEM W/GM-1, GM-4 CONTROL EQPT.
N40D DEGAUSSING SYSTEM, W/GM-1A CONTROL EQUIPMENT
N40E DEGAUSSING SYSTEM WITH GM 5 CONTROL EQUIPMENT
N40F DEGAUSSING SYSTEM W/RM SERIES CONTROL EQUIPMENT
N40G DEGAUSSING SYSTEM W/SM-4, SM-4A CONTROL EQPT.
N40H DEGAUSSING SYSTEM W/SM-5 CONTROL EQUIPMENT
N40J DEGAUSSING SYSTEM W/SM-7 CONTROL EQUIPMENT
N40K DEGAUSSING SYSTEM W/SM-8 CONTROL EQUIPMENT
N40L DEGAUSSING SYSTEM W/SM-9, SM-9A CONTROL EQPT.
N40M DEGAUSSING SYSTEM W/SM-10 CONTROL EQUIPMENT
N40N DEGAUSSING SYSTEM WITH SM-11 CONTROL EQUIPMENT
N40P DEGAUSSING SYSTEM W/SM-12 CONTROL EQUIPMENT
N40Q DEGAUSSING SYSTEM W/SM-14 CONTROL EQUIPMENT
N40R DEGAUSSING SYSTEM W/SSM (VICKERS) CONTROL EQPT.
N40S DEGAUSSING SYSTEM W/SSM-1 CONTROL EQUIPMENT
N40T DEGAUSSING SYSTEM W/SSM-2 CONTROL EQUIPMENT
N40U DEGAUSSING SYSTEM, W/SSM-3 CONTROL EQUIPMENT
N40V DEGAUSSING SYSTEM W/ALL COILS MANUALLY CONTROLLED
N500
GENERATING
PLANTS, AC,
ACOUSTIC
MINESWEEPING
N501 GENERATOR SET, AC, DIESEL ENGINE DRIVEN
N503 GENERATOR SET, AC, GAS TURBINE DRIVEN
N504 GENERATOR SET, AC, STEAM TURBINE DRIVEN
STREAMING
SYSTEMS,
MINESWEEPING
MERGED
MINESWEEPING
SYSTEMS,
DRONE
DEGAUSSING
SYSTEMS
WBS
?
402
GENERAL
SPACE OUT-
FITTING
REQUIREMENTS
403
ELECTRONIC
SYSTEM
SAFETY
404
RADIO
FREQUENCY
TRANSMISSION
LINES
405
ANTENNAS
REQUIREMENTS
406
GROUNDING
AND BONDING
407
RADIO
FREQUENCY
INTERFERENCE
(RFI)
408
GENERAL TEST
REQUIREMENTS
409
SECURITY
REQUIREMENTS


N600
GENERATING
PLANTS, DC,
MAGNETIC
MINESWEEPING
N700
PRAIRIE-
MASKER
SYSTEM
DIESEL ENGINE DRIVEN
GAS TURBINE DRIVEN
STEAM TURBINE DRIVEN
N601 GENERATOR SET, DC, GAS TURBINE DRIVEN
N603 GENERATOR SET, DIESEL ENGINE DRIVEN
N701 COMPRESSOR UNIT, AIR, PRAIRIE-MASKER, SUBMARINE USE
N703 PUMP UNIT, CTFGL, SEAWATER
N704 AIR SUPPLY, STM TDVN PRAIRIE-MASKER, SURFACE VESSELS
N705 AIR SUPPLY UNIT, GAS TURB DRIVE, PRAIRIE-MASKER, SUR VSL
N801
N803
N804
N805
N806
N807
N808
N809
N80A
N80B
N80C
N80D
N80E
N80F
N80G
N80H
N80J
N80K
N80L
N80M
N80N
N80P
N80Q
N80R
N80S
N80T
N80U
N80V
N80W
N80X
N80Y
N80Z
N810
N811
N813
N914
COUNTER-
MEASURES
DEGAUSSING
SYSTEMS
GENERATING
PLANT, AC,
ACOUSTIC
MINESWEEPING
GENERATING
PLANTS, DC,
MAGNETIC
MINESWEEPING
409
SECURITY
REQUIREMENTS

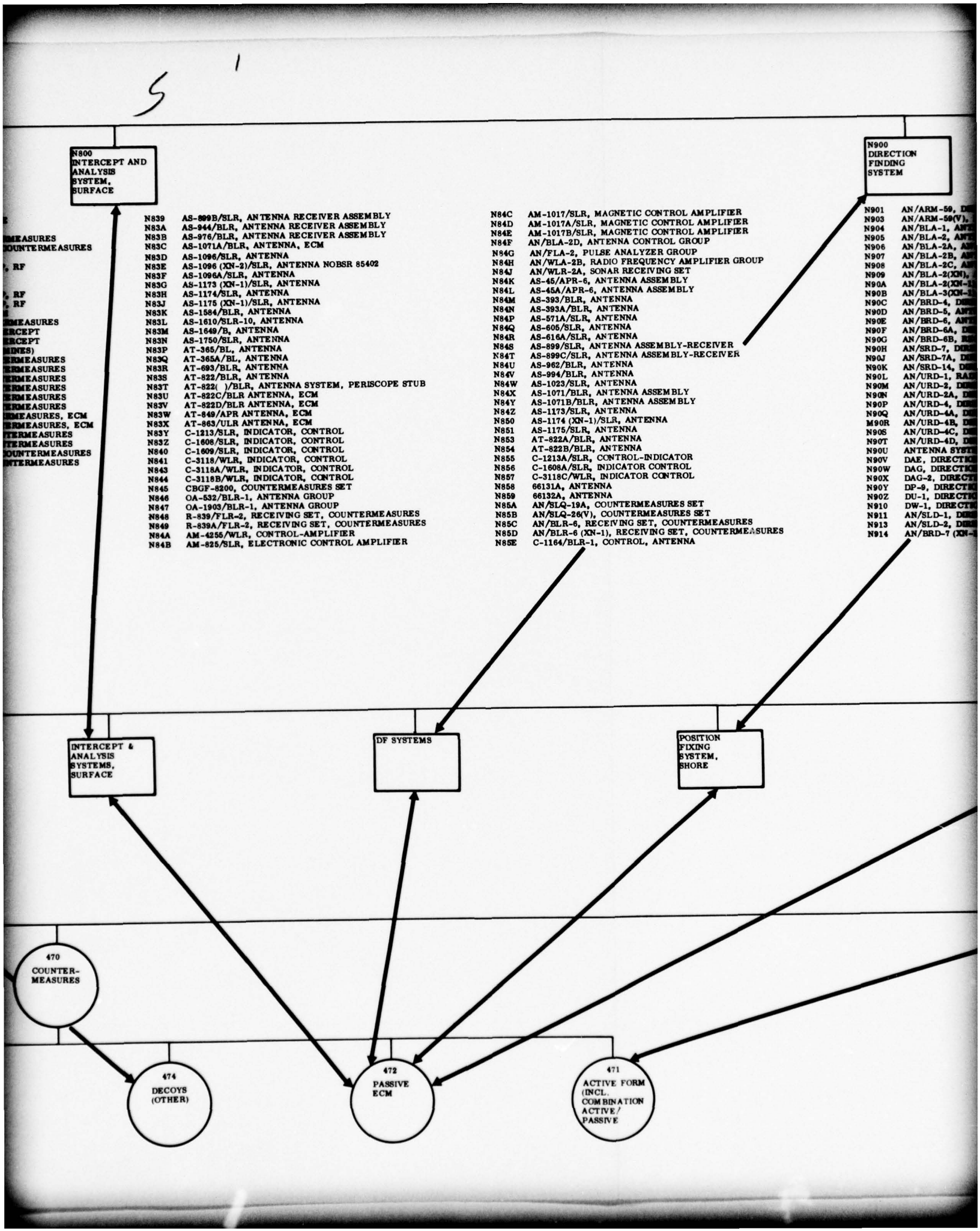


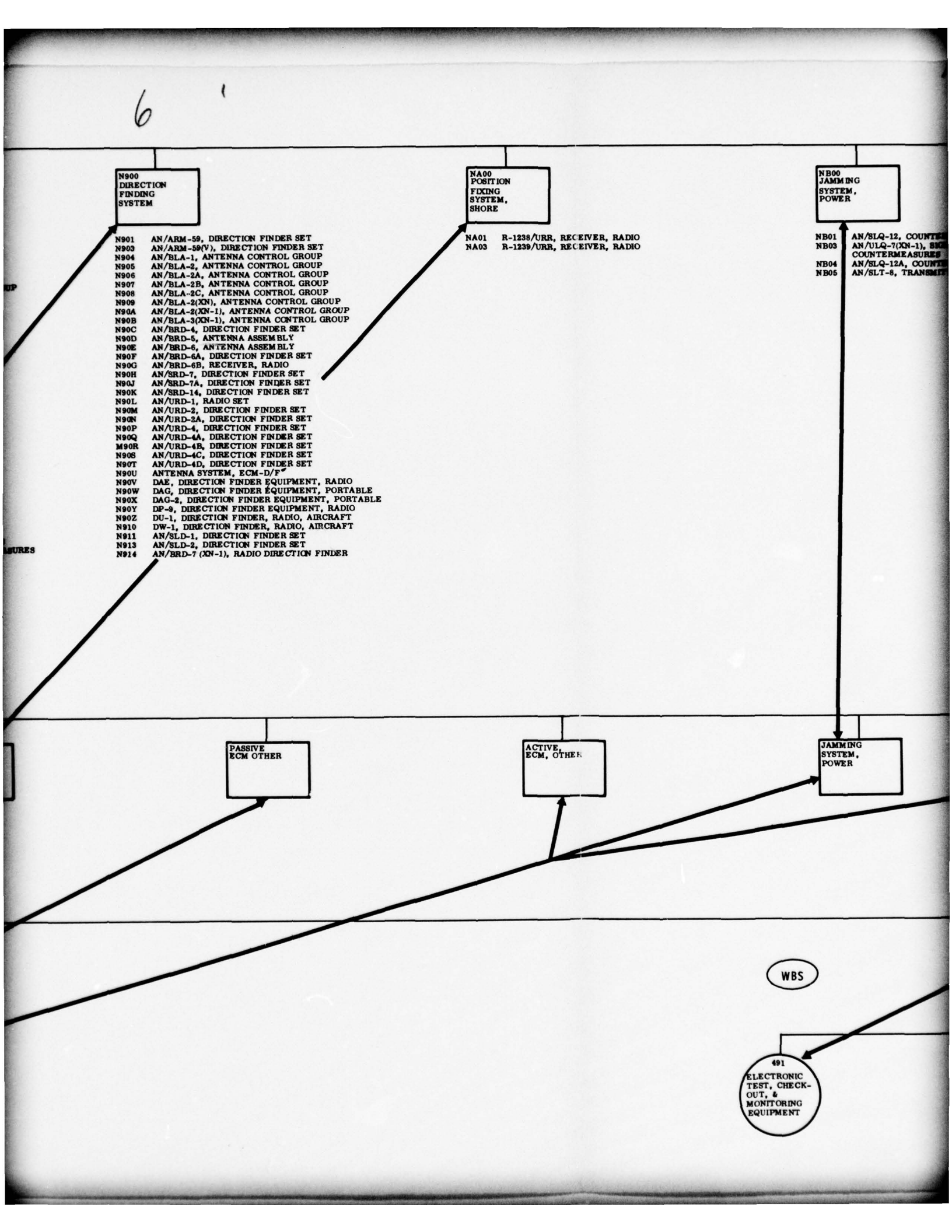
-MASKER,

-MASKER, SURFACE

IVE, PRAIRIE-MASKER,

N801	AN/APR-1, RECEIVING EQPT, RADIO
N803	AN/BLR-1, RECEIVING SET, COUNTERMEASURES
N804	AN/BLR-2, RECEIVING SET, COUNTERMEASURES
N805	AN/BLR-10, RECEIVING SET, COUNTERMEASURES
N806	AN/BLR-10A RECEIVING SET, COUNTERMEASURES
N807	AN/FLR-1, RECEIVING SET, COUNTERMEASURES
N808	CZC-SLR-12B, RECEIVER
N809	AN/FLR-2, RECEIVING SET, COUNTERMEASURES, VHF
N80A	AN/SLA-1, ANALYZER GROUP, PULSE
N80B	AN/SLA-1A, ANALYZER GROUP, PULSE
N80C	AN/SLA-1X, ANALYZER GROUP, PULSE
N80D	AN/SLA-2, ANALYZER GROUP, PULSE
N80E	AN/SLA-2A, ANALYZER GROUP, PULSE
N80F	AN/SLA-9, ANTENNA CONTROL GROUP
N80G	AN/SLA-9 (XN-1), ANTENNA CONTROL GROUP
N80H	AN/SLA-11, ANTENNA GROUP
N80J	AN/SLA-10, BLANKER, VIDEO MIXER GROUP
N80K	AN/SLA-10A, BLANKER-VIDEO MIXER GROUP
N80L	AN/SLA-10(V), BLANKER-VIDEO MIXER GROUP
N80M	AN/SLQ-19, RECEIVING SET, COUNTERMEASURES
N80N	AN/SLA-11 (XN-1), ANTENNA GROUP
N80P	AN/SLA-12, ANTENNA GROUP
N80Q	AN/SLA-13, ANTENNA GROUP
N80R	AN/SLA-13A, ANTENNA GROUP
N80S	AN/SLR-2, RECEIVING SET, COUNTERMEASURES, ECM
N80T	AN/SLR-8 (XN-2), RECEIVING SET, COUNTERMEASURES
N80U	AN/SLR-9, RECEIVING SET, COUNTERMEASURES
N80V	AN/SLR-10, RECEIVING SET, COUNTERMEASURES
N80W	AN/SLR-11, RECEIVING SET, COUNTERMEASURES
N80X	AN/SLR-12, RECEIVING SET, COUNTERMEASURES, ECM
N80Y	AN/SLR-12 (XN-1), RECEIVING SET, COUNTERMEASURES, ECM
N80Z	AN/SLR-12A, RECEIVING SET, COUNTERMEASURES, ECM
N810	AN/SLR-13, RECEIVING SET, COUNTERMEASURES, ECM
N811	AN/SPA-1, ANALYZER EQPT, PULSE
N813	AN/SPR-2, RADAR SET
N914	AN/SSQ-54, EMITTER STATUS INDICATOR SET
N815	AN/ULA-2, ANALYZER GROUP, PULSE
N816	AN/ULA-3, AMPLIFIER GROUP, RF
N817	AN/ULR-5, RECEIVING SET, COUNTERMEASURES
N818	AN/ULR-11 (XN-1), RECEIVING SET, COUNTERMEASURES
N819	AN/WLA-2, AMPLIFIER GROUP, RF
N81A	AN/WLA-2 (XN-1), AMPLIFIER GROUP, RF
N81B	AN/WLA-2A, AMPLIFIER GROUP, RF
N81C	AN/WLA-3, AMPLIFIER GROUP, RF
N81D	AN/WLA-3 (XN-1), AMPLIFIER GROUP, RF
N81E	AN/WLA-3 (XN-2), AMPLIFIER GROUP, RF
N81G	AN/WLA-3A, AMPLIFIER GROUP, ECM
N81H	AN/WLR-1, RECEIVING SET, COUNTERMEASURES
N81J	AN/WLR-1 (XN-1), SYSTEM, ECM INTERCEPT
N81K	AN/WLR-1 (XN-2), SYSTEM, ECM INTERCEPT
N81L	AN/WLR-2, RECEIVING SET, SONAR (MINES)
N81M	AN/WLR-1A, RECEIVING SET, COUNTERMEASURES
N81N	AN/WLR-1B, RECEIVING SET, COUNTERMEASURES
N81P	AN/WLR-1C, RECEIVING SET, COUNTERMEASURES
N81Q	AN/WLR-1D, RECEIVING SET, COUNTERMEASURES
N81R	AN/WLR-1E, RECEIVING SET, COUNTERMEASURES
N81S	AN/WLR-1F, RECEIVING SET, COUNTERMEASURES
N81T	AN/WLR-3, RECEIVING SET, COUNTERMEASURES, ECM
N81U	AN/WLR-3A, RECEIVING SET, COUNTERMEASURES, ECM
N81V	AN/WLR-5(V), RECEIVING SET, COUNTERMEASURES
N81W	AN/WLR-6(V), RECEIVING SET, COUNTERMEASURES
N81X	AN/WLR-6 (XN-1), RECEIVING SET, COUNTERMEASURES
N81Y	AN/WLR-6A(V), RECEIVING SET, COUNTERMEASURES
N81Z	AS-371/S, ANTENNA
N830	AS-371A/S, ANTENNA ASSEMBLY
N831	AS-371B/S, ANTENNA ASSEMBLY
N833	AS-393B/BLR, ANTENNA
N834	AS-570/SLR, ANTENNA, DF
N835	AS-571/SLR, ANTENNA ARRAY
N836	AS-616/SLR, ANTENNA, DF
N837	AS-626/BLR, ANTENNA ASSEMBLY
N838	AS-899A/SLR, ANTENNA, DF
N839	AS-899B/SL
N83A	AS-944/BL
N83B	AS-976/BL
N83C	AS-1071A/
N83D	AS-1096/SL
N83E	AS-1096 (X
N83F	AS-1096A/
N83G	AS-1173 (X
N83H	AS-1174/SL
N83J	AS-1175 (X
N83K	AS-1584/BL
N83L	AS-1610/SL
N83M	AS-1649/B,
N83N	AS-1750/SL
N83P	AT-365/BL,
N83Q	AT-365A/B
N83R	AT-693/BL
N83S	AT-822/BL
N83T	AT-822( )/
N83U	AT-822C/B
N83V	AT-822D/B
N83W	AT-849/AP
N83X	AT-863/UL
N83Y	C-1213/SL
N83Z	C-1608/SL
N840	C-1609/SL
N841	C-3118/WL
N843	C-3118A/W
N844	C-3118B/W
N845	CBGF-8200,
N846	OA-532/BL
N847	OA-1903/BL
N848	R-839/FLR-
N849	R-839A/FL
N84A	AM-4255/W
N84B	AM-825/SL


N800
INTERCEPT AND ANALYSIS SYSTEM, SURFACE
N839 AS-899B/SLR, ANTENNA RECEIVER ASSEMBLY
N83A AS-944/BLR, ANTENNA RECEIVER ASSEMBLY
N83B AS-976/BLR, ANTENNA RECEIVER ASSEMBLY
N83C AS-1071A/BLR, ANTENNA, ECM
N83D AS-1096/SLR, ANTENNA
N83E AS-1096 (XN-2)/SLR, ANTENNA NOBSR 85402
N83F AS-1096A/SLR, ANTENNA
N83G AS-1173 (XN-1)/SLR, ANTENNA
N83H AS-1174/SLR, ANTENNA
N83J AS-1175 (XN-1)/SLR, ANTENNA
N83K AS-1584/BLR, ANTENNA
N83L AS-1610/SLR-10, ANTENNA
N83M AS-1649/B, ANTENNA
N83N AS-1750/SLR, ANTENNA
N83P AT-365/BL, ANTENNA
N83Q AT-365A/BL, ANTENNA
N83R AT-693/BLR, ANTENNA
N83S AT-822/BLR, ANTENNA
N83T AT-822( )/BLR, ANTENNA SYSTEM, PERISCOPE STUB
N83U AT-822C/BLR ANTENNA, ECM
N83V AT-822D/BLR ANTENNA, ECM
N83W AT-849/APR ANTENNA, ECM
N83X AT-863/ULR ANTENNA, ECM
N83Y C-1213/SLR, INDICATOR, CONTROL
N83Z C-1608/SLR, INDICATOR, CONTROL
N840 C-1609/SLR, INDICATOR, CONTROL
N841 C-3118/WLR, INDICATOR, CONTROL
N843 C-3118A/WLR, INDICATOR, CONTROL
N844 C-3118B/WLR, INDICATOR, CONTROL
N845 CBGF-8200, COUNTERMEASURES SET
N846 OA-532/BLR-1, ANTENNA GROUP
N847 OA-1903/BLR-1, ANTENNA GROUP
N848 R-839/FLR-2, RECEIVING SET, COUNTERMEASURES
N849 R-839A/FLR-2, RECEIVING SET, COUNTERMEASURES
N84A AM-4255/WLR, CONTROL-AMPLIFIER
N84B AM-825/SLR, ELECTRONIC CONTROL AMPLIFIER
N84C AM-1017/SLR, MAGNETIC CONTROL AMPLIFIER
N84D AM-1017A/SLR, MAGNETIC CONTROL AMPLIFIER
N84E AM-1017B/SLR, MAGNETIC CONTROL AMPLIFIER
N84F AN/BLA-2D, ANTENNA CONTROL GROUP
N84G AN/FLA-2, PULSE ANALYZER GROUP
N84H AN/WLA-2B, RADIO FREQUENCY AMPLIFIER GROUP
N84J AN/WLR-2A, SONAR RECEIVING SET
N84K AS-45/APR-6, ANTENNA ASSEMBLY
N84L AS-45A/APR-6, ANTENNA ASSEMBLY
N84M AS-393/BLR, ANTENNA
N84N AS-393A/BLR, ANTENNA
N84P AS-571A/SLR, ANTENNA
N84Q AS-605/SLR, ANTENNA
N84R AS-616A/SLR, ANTENNA
N84S AS-899/SLR, ANTENNA ASSEMBLY-RECEIVER
N84T AS-899C/SLR, ANTENNA ASSEMBLY-RECEIVER
N84U AS-962/BLR, ANTENNA
N84V AS-994/BLR, ANTENNA
N84W AS-1023/SLR, ANTENNA
N84X AS-1071/BLR, ANTENNA ASSEMBLY
N84Y AS-1071B/BLR, ANTENNA ASSEMBLY
N84Z AS-1173/SLR, ANTENNA
N850 AS-1174 (XN-1)/SLR, ANTENNA
N851 AS-1175/SLR, ANTENNA
N853 AT-822A/BLR, ANTENNA
N854 AT-822B/BLR, ANTENNA
N855 C-1213A/SLR, CONTROL-INDICATOR
N856 C-1608A/SLR, INDICATOR CONTROL
N857 C-3118C/WLR, INDICATOR CONTROL
N858 66131A, ANTENNA
N859 66132A, ANTENNA
N85A AN/SLQ-19A, COUNTERMEASURES SET
N85B AN/SLQ-26(V), COUNTERMEASURES SET
N85C AN/BLR-6, RECEIVING SET, COUNTERMEASURES
N85D AN/BLR-6 (XN-1), RECEIVING SET, COUNTERMEASURES
N85E C-1164/BLR-1, CONTROL, ANTENNA
N900
DIRECTION FINDING SYSTEM
N901 AN/ARM-59, DI
N903 AN/ARM-59(V),
N904 AN/BLA-1, AN
N905 AN/BLA-2, AN
N906 AN/BLA-2A, AN
N907 AN/BLA-2B, AN
N908 AN/BLA-2C, AN
N909 AN/BLA-2(XN),
N90A AN/BLA-2(XN-1
N90B AN/BLA-3(XN-1
N90C AN/BRD-4, DI
N90D AN/BRD-5, AN
N90E AN/BRD-6, AN
N90F AN/BRD-6A, DI
N90G AN/BRD-6B, DI
N90H AN/SRD-7, DI
N90J AN/SRD-7A, DI
N90K AN/SRD-14, DI
N90L AN/URD-1, RA
N90M AN/URD-2, DI
N90N AN/URD-2A, DI
N90P AN/URD-4, DI
N90Q AN/URD-4A, DI
M90R AN/URD-4B, DI
N90S AN/URD-4C, DI
N90T AN/URD-4D, DI
N90U ANTENNA SYST
N90V DAE, DIRECTIO
N90W DAG, DIRECTIO
N90X DAG-2, DIRECTI
N90Y DP-9, DIRECTI
N90Z DU-1, DIRECTI
N910 DW-1, DIRECTI
N911 AN/SLD-1, DI
N913 AN/SLD-2, DI
N914 AN/BRD-7 (XN-
INTERCEPT & ANALYSIS SYSTEMS, SURFACE
DF SYSTEMS
POSITION FIXING SYSTEM, SHORE
470
COUNTER-MEASURES
474
DECOYS (OTHER)
472
PASSIVE ECM
471
ACTIVE FORM (INCL. COMBINATION ACTIVE/ PASSIVE


N900
DIRECTION FINDING SYSTEM
N901 AN/ARM-59, DIRECTION FINDER SET
N903 AN/ARM-59(V), DIRECTION FINDER SET
N904 AN/BLA-1, ANTENNA CONTROL GROUP
N905 AN/BLA-2, ANTENNA CONTROL GROUP
N906 AN/BLA-2A, ANTENNA CONTROL GROUP
N907 AN/BLA-2B, ANTENNA CONTROL GROUP
N908 AN/BLA-2C, ANTENNA CONTROL GROUP
N909 AN/BLA-2(XN), ANTENNA CONTROL GROUP
N90A AN/BLA-2(XN-1), ANTENNA CONTROL GROUP
N90B AN/BLA-3(XN-1), ANTENNA CONTROL GROUP
N90C AN/BRD-4, DIRECTION FINDER SET
N90D AN/BRD-5, ANTENNA ASSEMBLY
N90E AN/BRD-6, ANTENNA ASSEMBLY
N90F AN/BRD-6A, DIRECTION FINDER SET
N90G AN/BRD-6B, RECEIVER, RADIO
N90H AN/BRD-7, DIRECTION FINDER SET
N90J AN/BRD-7A, DIRECTION FINDER SET
N90K AN/BRD-14, DIRECTION FINDER SET
N90L AN/URD-1, RADIO SET
N90M AN/URD-2, DIRECTION FINDER SET
N90N AN/URD-2A, DIRECTION FINDER SET
N90P AN/URD-4, DIRECTION FINDER SET
N90Q AN/URD-4A, DIRECTION FINDER SET
M90R AN/URD-4B, DIRECTION FINDER SET
N90S AN/URD-4C, DIRECTION FINDER SET
N90T AN/URD-4D, DIRECTION FINDER SET
N90U ANTENNA SYSTEM, ECM-D/F
N90V DAE, DIRECTION FINDER EQUIPMENT, RADIO
N90W DAG, DIRECTION FINDER EQUIPMENT, PORTABLE
N90X DAG-2, DIRECTION FINDER EQUIPMENT, PORTABLE
N90Y DP-9, DIRECTION FINDER EQUIPMENT, RADIO
N90Z DU-1, DIRECTION FINDER, RADIO, AIRCRAFT
N910 DW-1, DIRECTION FINDER, RADIO, AIRCRAFT
N911 AN/SLD-1, DIRECTION FINDER SET
N913 AN/SLD-2, DIRECTION FINDER SET
N914 AN/BRD-7 (XN-1), RADIO DIRECTION FINDER
NA00
POSITION FIXING SYSTEM, SHORE
NA01 R-1238/URR, RECEIVER, RADIO
NA03 R-1239/URR, RECEIVER, RADIO
NB00
JAMMING SYSTEM, POWER
NB01 AN/SLQ-12, COUNTER
NB03 AN/ULQ-7(XN-1), SEC
COUNTERMEASURES
NB04 AN/SLQ-12A, COUNTE
NB05 AN/SLT-8, TRANSMIT
PASSIVE ECM OTHER
ACTIVE, ECM, OTHER
JAMMING SYSTEM, POWER
WBS
491
ELECTRONIC TEST, CHECK-OUT, & MONITORING EQUIPMENT

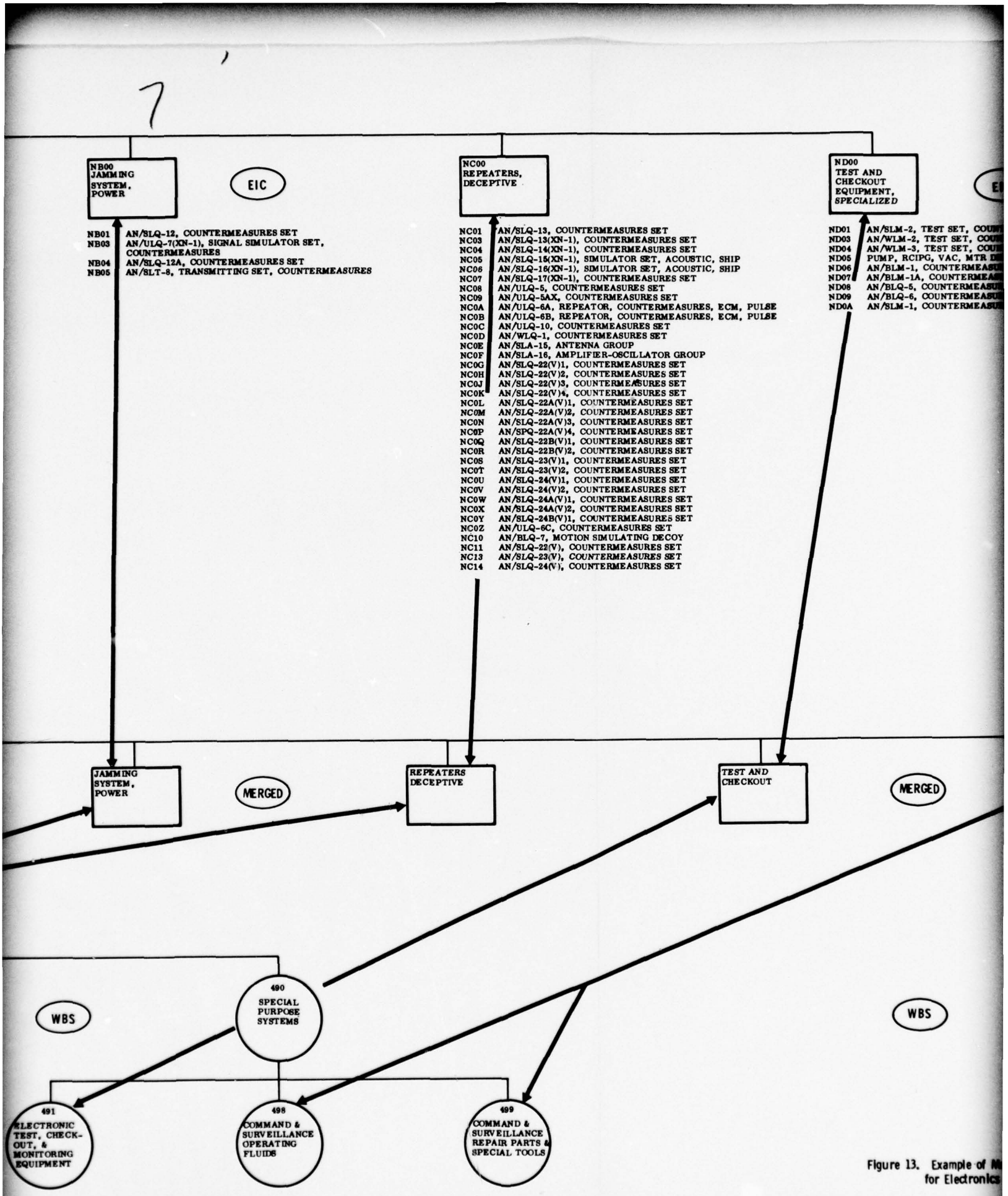


Figure 13. Example of M
for Electronics

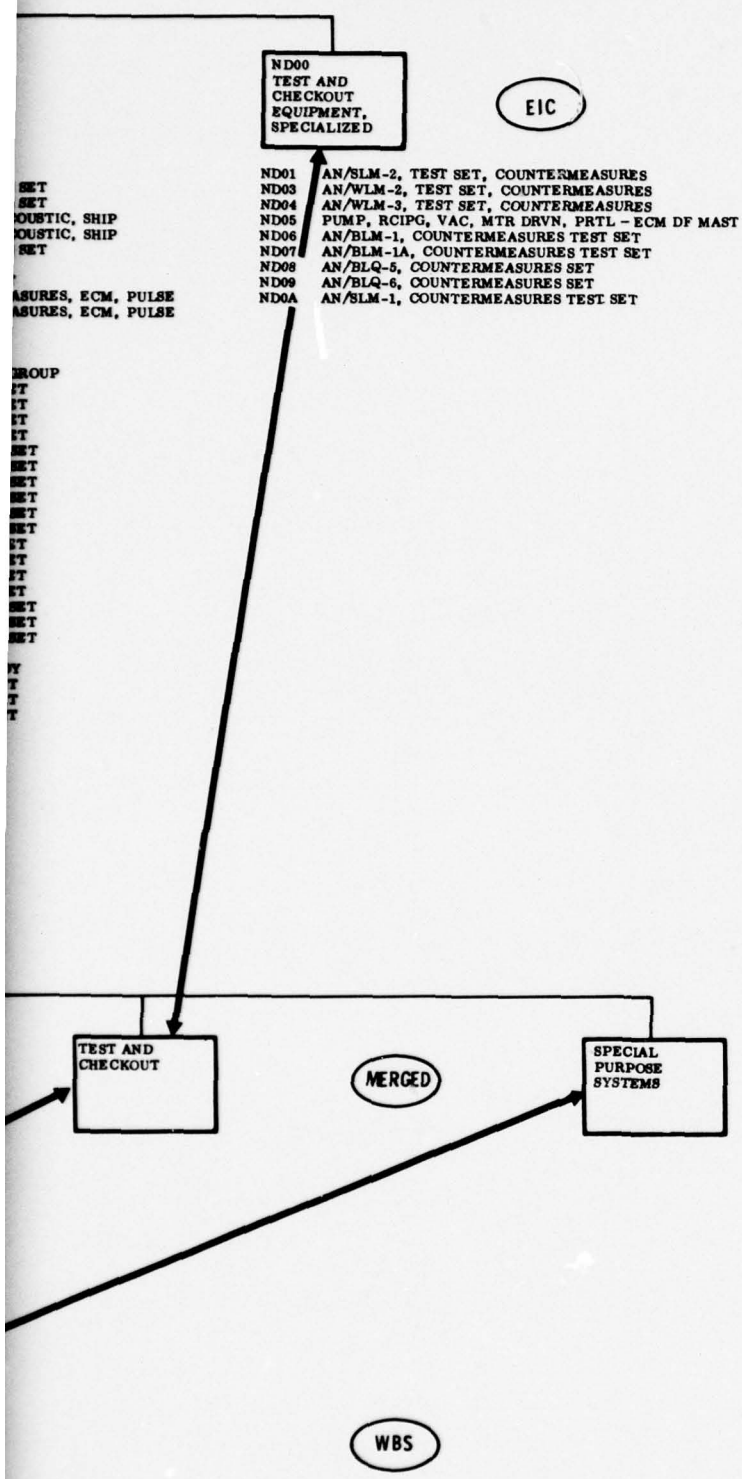


Figure 13. Example of Merged Structure Concept for Electronics Type System

TABLE 1. EXAMPLE: INDEX LISTING OF GUN SYSTEMS
FOR MERGED STRUCTURE (Sheet 1 of 23)

ORDNANCE

GUN SYSTEMS

GUN FIRE CONTROL SYSTEM MK 68

LEVEL 1 — DIRECTOR, GUN MK 68 MODS 0,1
DIRECTOR, GUN MK 68 MOD 2
DIRECTOR, GUN MK 68 MOD 3
DIRECTOR, GUN MK 68 MOD 5

LEVEL 2 — DIRECTOR, GUN MK 68 MOD 6
SET, RADAR AN/SPG-53

LEVEL 3 — SET, RADAR AN/SPG-53A
SET, RADAR AN/SPG-53B

LEVEL 4 → EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 1
EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 2
COMPUTER, STARSHELL MK 1 MODS
COMPUTER MK 47 MOD 3
COMPUTER MK 47 MOD 4
COMPUTER MK 47 MOD 5
COMPUTER MK 47 MOD 7
COMPUTER MK 47 MOD 8
COMPUTER MK 47 MOD 9
COMPUTER MK 47 MOD 10
COMPUTER MK 116 MOD 0
COMPUTER MK 116 MOD 3
COMPUTER MK 116 MOD 4
ELEMENT, STABLE MK 16 MOD 0
ELEMENT, STABLE MK 16 MOD 1
ELEMENT, STABLE MK 16 MOD 2
ELEMENT, STABLE MK 16 MOD 6
CORRECTOR, TRAIN PARALLAX MK 8 MOD 0
DRIVE, DIRECTOR CONTROL MK 2 MOD 0
DRIVE, DIRECTOR CONTROL MK 2 MOD 1
DRIVE, DIRECTOR CONTROL MK 2 MOD 2
DRIVE, DIRECTOR CONTROL MK 2 MOD 3
DRIVE, DIRECTOR CONTROL MK 2 MOD 4
DRIVE, DIRECTOR CONTROL MK 2 MOD 5
TRANSMITTER, RELAY MK 32 MOD 0
TRANSMITTER, RELAY MK 32 MOD 1
TRANSMITTER, RELAY MK 32 MOD 2
TRANSMITTER, RELAY MK 38 MOD 0
TESTER, DYNAMIC MK 2 MOD 0
TESTER, DYNAMIC MK 2 MOD 2
TESTER, DYNAMIC MK 2 MOD 3
RECORDER, ERROR MK 7 MODS 0,1
CONVERTER MK 20 MOD 2

TABLE 1. (Sheet 2 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

SWITCHBOARD, FIRE CONTROL MK 14

SWITCHBOARD, FIRE CONTROL MK 14 MOD 0
SWITCHBOARD, FIRE CONTROL MK 14 MOD 1
SWITCHBOARD, FIRE CONTROL MK 14 MOD 2
SWITCHBOARD, FIRE CONTROL MK 14 MOD 3
SWITCHBOARD, FIRE CONTROL MK 14 MOD 4
SWITCHBOARD, FIRE CONTROL MK 14 MOD 5
SWITCHBOARD, FIRE CONTROL MK 14 MOD 6
SWITCHBOARD, FIRE CONTROL MK 14 MOD 7
SWITCHBOARD, FIRE CONTROL MK 14 MOD 8
SWITCHBOARD, FIRE CONTROL MK 14 MOD 9
SWITCHBOARD, FIRE CONTROL MK 14 MOD 10
SWITCHBOARD, FIRE CONTROL MK 14 MOD 11
SWITCHBOARD, FIRE CONTROL MK 14 MOD 12
SWITCHBOARD, FIRE CONTROL MK 14 MOD 13
SWITCHBOARD, FIRE CONTROL MK 14 MOD 14
SWITCHBOARD, FIRE CONTROL MK 14 MOD 15
SWITCHBOARD, FIRE CONTROL MK 14 MOD 16
SWITCHBOARD, FIRE CONTROL MK 14 MOD 17
SWITCHBOARD, FIRE CONTROL MK 14 MOD 18
SWITCHBOARD, FIRE CONTROL MK 14 MOD 19
SWITCHBOARD, FIRE CONTROL MK 14 MOD 20

GUN FIRE CONTROL SYSTEM MK 70

DIRECTOR, GUN MK 51 MOD 13
DIRECTOR, GUN MK 51 MOD 14
SET, RADAR AN/SPG-52
SET, RADAR AN/SPG-52A
COMPUTER MK 6 MODS
COMPUTER, FUZE MK 112 MODS 0,1
SIGHT, GUN MK 31 MODS 1-5
CORRECTOR, TRAIN PARALLAX MK 5 MODS 0 THRU 11
CORRECTOR, GUN ORDER MK 2 MODS 0,1
CORRECTOR, GUN ORDER MK 3 MODS 0,2
AMPLIFIER MK 10 MOD 0
AMPLIFIER MK 10 MOD 1
AMPLIFIER MK 121 MODS 1,2
DESIGNATOR, TRAIN MK 2 MOD 5

GUN FIRE CONTROL SYSTEM MK 86

SWITCHBOARD, FIRE CONTROL MK 16 MOD 0
SWITCHBOARD, FIRE CONTROL MK 16 MOD 1

TABLE 1. (Sheet 3 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN FIRE CONTROL SYSTEM MK 86 (CONT.)

SWITCHBOARD, FIRE CONTROL MK 16 MOD 2
SWITCHBOARD, FIRE CONTROL MK 16 MOD 3
SWITCHBOARD, FIRE CONTROL MK 16 MOD 4
SWITCHBOARD, FIRE CONTROL MK 16 MOD 5
SWITCHBOARD, FIRE CONTROL MK 16 MOD 6
SWITCHBOARD, FIRE CONTROL MK 16 MOD 7
SWITCHBOARD, FIRE CONTROL MK 16 MOD 8
SWITCHBOARD, FIRE CONTROL MK 16 MOD 9

GUN FIRE CONTROL SYSTEM MK 87

CONSOLE, FIRE CONTROL MK 75 MOD 0
SIGHT, OPTICAL, MK 33 MOD 0
ANTENNA RADAR MK 35 MOD 0
EQUIPMENT, RADAR, AUXILIARY MK 54 MOD 0
EQUIPMENT, RADAR MK 58 MOD 0
CONSOLE, DISPLAY MK 76 MOD 0
CONVERTER, SIGNAL DATA MK 64 MOD 0
SUPPLY, POWER, RADAR EQUIPMENT MK 142 MOD 0
PANEL, CONTROL MK 296 MOD 0
CONVERTER, SIGNAL DATA MK 63 MOD 0
PANEL, TEST, COMPUTER MK 297 MOD 0
DRYER, WAVEGUIDE MK 1 MOD 0
BOX, DISTRIBUTION MK 10 MOD 0
SWITCH, SAFETY MK 129 MOD 0

TARGET DESIGNATION SYSTEM MK 1

UNIT, CONTROL MK 42 MODS 4,5
PANEL, INDICATOR MK 2 MOD 1
PANEL, INDICATOR MK 3 MOD 1
PANEL, INDICATOR MK 5 MODS 0,1
PANEL, INDICATOR MK 5 MOD 7
TRANSMITTER, RELAY MK 18 MOD 3
TRANSMITTER, TARGET DESIGNATION MK 19 MOD 7
INDICATOR, GUN ELEVATION MK 54 MOD 1
INDICATOR, GUN ELEVATION MK 60 MODS 0,1
INDICATOR, BEARING AND RANGE MK 7 MODS 0-3

TARGET DESIGNATION SYSTEM MK 3

EQUIPMENT, DESIGNATION MK 3 MOD 0
COMPUTER MK 82 MOD 0

TABLE 1. (Sheet 4 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

TARGET DESIGNATION SYSTEM MK 3 (CONT.)

CONVERTER MK 5 MOD 0
PANEL, INDICATOR MK 5 MOD 0
PANEL, INDICATOR MK 5 MODS 13,14
SUPPLY, POWER MK 62 MOD 1
MONITOR OWN FLEET XN-1/S
TRANSMITTER, TARGET DESIGNATION MK 19 MOD 2
INDICATOR, GUN ELEVATION MK 60 MOD 0

TARGET DESIGNATION SYSTEM MK 5

GENERATOR, VIDEO MK 3 MOD 0
GENERATOR, VIDEO MK 3 MOD 1
GENERATOR, VIDEO MK 3 MOD 4
CONVERTER, COORDINATE MK 26 MOD 0
CONVERTER, COORDINATE MK 26 MOD 1
CONVERTER, COORDINATE MK 26 MOD 5
INDICATOR, DESIGNATION MK 4 MOD 1
INDICATOR, DESIGNATION MK 4 MOD 5
UNIT, CONTROL MK 37 MODS 0,1
UNIT, CONTROL MK 37 MODS 3-UP
UNIT, CONTROL MK 72 MOD 0
UNIT, CONTROL MK 72 MODS 1,2
UNIT, CONTROL MK 72 MODS 3-6
UNIT, CONTROL MK 74 MODS 0,1
UNIT, CONTROL MK 74 MODS 2,3
PANEL, INDICATOR MK 5 MODS 5-10
PANEL, INDICATOR MK 5 MODS 17-24
PANEL, INDICATOR MK 5 MOD 27
TRANSMITTER, RELAY MK 32 MOD 4
TRANSMITTER, TARGET DESIGNATION MK 19 MOD 0
TRANSMITTER, TARGET DESIGNATION MK 19 MOD 7
TRANSMITTER, TARGET DESIGNATION MK 19 MODS 8-11
TRANSMITTER, TARGET DESIGNATION MK 22 MODS 0,1
TRANSMITTER, TARGET DESIGNATION MK 23 MOD 0
INDICATOR, BEARING AND RANGE MK 7 MODS 0-3
INDICATOR, BEARING AND RANGE MK 7 MODS 4,5

TARGET DESIGNATION SYSTEM MK 6

GENERATOR, VIDEO MK 5 MOD 0
CONVERTER, COORDINATE MK 23 MOD 0
CONVERTER, COORDINATE MK 26 MOD 1
INDICATOR, DESIGNATION MK 5 MOD 0

TABLE 1. (Sheet 5 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

TARGET DESIGNATION SYSTEM MK 6 (CONT.)

- INDICATOR, DESIGNATION MK 6 MOD 0
- INDICATOR, DESIGNATION MK 6 MOD 1
- INDICATOR, DESIGNATION MK 7 MOD 0
- CONSOLE MK 11 MOD 1
- CONSOLE MK 11 MOD 3
- CONSOLE MK 13 MOD 0
- CONSOLE MK 13 MOD 1
- CONVERTER, SCAN MK 25 MOD 0
- CONVERTER, SCAN MK 25 MOD 1
- PLOTTER MK 14 MOD 1
- PLOTTER MK 14 MOD 2
- UNIT, CONTROL MK 37 MODS 2, 10, 11, 14, 15
- UNIT, CONTROL MK 74 MOD 2
- PANEL, INDICATOR MK 5 MODS 17, 23
- PANEL, INDICATOR MK 5 MOD 27
- SUPPLY, POWER MK 76 MOD 0
- SUPPLY, POWER MK 90 MOD 0
- ASSEMBLY, RELAY MK 11 MOD 0
- TRANSMITTER, TARGET DESIGNATION MK 19 MOD 1
- TRANSMITTER, TARGET DESIGNATION MK 19 MODS 20-23
- TRANSMITTER, TARGET DESIGNATION MK 23 MOD 0
- BOX, JUNCTION MK 34 MOD 0
- BOX, JUNCTION MK 34 MOD 3

GUNAR SYSTEM MK 3

- SET, RADAR AN/SPG-48
- MOUNT, RADAR ANTENNA MK 32 MOD 2
- CONSOLE MK 7 MOD 4
- GYRO UNIT MK 1 MOD 1
- SUPPLY, POWER MK 60 MOD 1
- GUN RATE TIMER
- GUNAR UNIT TESTER
- TRANSFORMER, POWER
- AMPLIFIER MK 10 MOD 1
- CORRECTOR, TRAIN PARALLAX MK 5 MOD 1
- GENERATOR SET, MOTOR

TABLE 1. (Sheet 6 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN TURRETS

8/55 3 GUN TURRET RF
8/55 3 GUN TURRET SF
6/47 TRIPLE GUN TURRET SF
16/50 3 GUN TURRET

GUN TURRETS SWITCHBOARDS, FIRE CONTROL

SWITCHBOARD, FIRE CONTROL MK 19 MOD 0
SWITCHBOARD, FIRE CONTROL MK 19 MOD 1
SWITCHBOARD, FIRE CONTROL MK 19 MOD 2
SWITCHBOARD, FIRE CONTROL MK 19 MOD 3
SWITCHBOARD, FIRE CONTROL MK 19 MOD 4
SWITCHBOARD, FIRE CONTROL MK 19 MOD 5
SWITCHBOARD, FIRE CONTROL MK 19 MOD 6
SWITCHBOARD, FIRE CONTROL MK 20 MOD 0
SWITCHBOARD, FIRE CONTROL MK 20 MOD 1
SWITCHBOARD, FIRE CONTROL MK 20 MOD 2
SWITCHBOARD, FIRE CONTROL MK 20 MOD 3
SWITCHBOARD, FIRE CONTROL MK 20 MOD 4
SWITCHBOARD, FIRE CONTROL MK 20 MOD 5
SWITCHBOARD, FIRE CONTROL MK 20 MOD 6
SWITCHBOARD, FIRE CONTROL MK 21 MOD 0
SWITCHBOARD, FIRE CONTROL MK 21 MOD 1
SWITCHBOARD, FIRE CONTROL MK 24 MOD 0
SWITCHBOARD, FIRE CONTROL MK 21 MOD 2
SWITCHBOARD, FIRE CONTROL MK 21 MOD 3
SWITCHBOARD, FIRE CONTROL MK 21 MOD 4
SWITCHBOARD, FIRE CONTROL MK 21 MOD 5
SWITCHBOARD, FIRE CONTROL MK 21 MOD 6
SWITCHBOARD, FIRE CONTROL MK 23 MOD 0
SWITCHBOARD, FIRE CONTROL MK 23 MOD 1
SWITCHBOARD, FIRE CONTROL MK 23 MOD 2
SWITCHBOARD, FIRE CONTROL MK 23 MOD 3
SWITCHBOARD, FIRE CONTROL MK 23 MOD 4
SWITCHBOARD, FIRE CONTROL MK 23 MOD 5
SWITCHBOARD, FIRE CONTROL MK 23 MOD 6
SWITCHBOARD, FIRE CONTROL MK 24 MOD 1
SWITCHBOARD, FIRE CONTROL MK 24 MOD 2
SWITCHBOARD, FIRE CONTROL MK 24 MOD 3
SWITCHBOARD, FIRE CONTROL MK 24 MOD 4
SWITCHBOARD, FIRE CONTROL MK 24 MOD 5
SWITCHBOARD, FIRE CONTROL MK 24 MOD 6

TABLE 1. (Sheet 7 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN MOUNTS

MOUNT, 5 IN. 54CAL. SINGLE RF MK 42 MOD 3
MOUNT, 5 IN. 54CAL. SINGLE RF MK 42 MOD 4
MOUNT, 5 IN. 54CAL. SINGLE RF MK 42 MOD 5
MOUNT, 5 IN. 54CAL. SINGLE RF MK 42 MOD 7
MOUNT, 5 IN. 54CAL. SINGLE RF MK 42 MOD 8
MOUNT, 5 IN. 54CAL. SINGLE RF MK 42 MOD 9
MOUNT, 5 IN. 54CAL. SINGLE RF MK 42 MOD 1
MOUNT, 5 IN. 54CAL. SINGLE RF MK 42 MOD 10
MOUNT, 5 IN. 54CAL. SINGLE SF MK 39 MOD 0
MOUNT, 5 IN. 38CAL. TWIN DP MK 28 MOD 0
MOUNT, 5 IN. 38CAL. TWIN DP MK 38 MOD 1
MOUNT, 5 IN. 38CAL. TWIN DP MK 38 MOD 0
MOUNT, 5 IN. 38CAL. TWIN DP MK 38 MOD 3
MOUNT, 5 IN. 38CAL. TWIN DP MK 38 MOD 4
MOUNT, 5 IN. 38CAL. TWIN DP MK 38 MOD 5
MOUNT, 5 IN. 38CAL. TWIN DP MK 38 MOD 11
MOUNT, 5 IN. 38CAL. TWIN DP MK 38 MOD 12
MOUNT, 5 IN. 38CAL. SINGLE MK 37 MOD 1
MOUNT, 5 IN. 38CAL. SINGLE MK 37 MOD 5
MOUNT, 5 IN. 38CAL. SINGLE MK 37 MOD 6
MOUNT, 5 IN. 38CAL. SINGLE MK 37 MOD 9
MOUNT, 5 IN. 38CAL. SINGLE MK 37 MOD 12
MOUNT, 5 IN. 38CAL. SINGLE MK 37 MOD 13
MOUNT, 5 IN. 38CAL. TWIN DP MK 32 MOD 0
MOUNT, 5 IN. 38CAL. TWIN DP MK 32 MOD 2
MOUNT, 5 IN. 38CAL. TWIN DP MK 32 MOD 3
MOUNT, 5 IN. 38CAL. TWIN DP MK 32 MOD 4
MOUNT, 5 IN. 38CAL. TWIN DP MK 32 MOD 12
MOUNT, 5 IN. 38CAL. TWIN DP MK 32 MOD 13
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 6
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 12
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 13
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 16
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 18
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 19
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 21
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 24
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 31
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 41
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 42
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 43
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 44
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 60

TABLE 1. (Sheet 8 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN MOUNTS (CONT.)

MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 61
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 65
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 67
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 70
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 71
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 73
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 75
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 77
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 81
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 82
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 83
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 86
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 90
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 91
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 92
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 93
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 94
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 95
MOUNT, 5 IN. 38CAL. SINGLE MK 30 MOD 96
MOUNT, 5 IN. 38CAL. SINGLE MK 24 MOD 9
MOUNT, 5 IN. 38CAL. SINGLE MK 24 MOD 11
MOUNT, 3 IN. 70CAL. TWIN RF MK 38 MOD 0
MOUNT, 3 IN. 50CAL. SINGLE RF MK 34 MOD 1
MOUNT, 3 IN. 50CAL. SINGLE RF MK 34 MOD 2
MOUNT, 3 IN. 50CAL. SINGLE RF MK 34 MOD 3
MOUNT, 3 IN. 50CAL. SINGLE RF MK 34 MOD 0
MOUNT, 3 IN. 50CAL. SINGLE RF MK 34 MOD 5
MOUNT, 3 IN. 50CAL. TWIN RF MK 33 MOD 0
MOUNT, 3 IN. 50CAL. TWIN RF MK 33 MOD 4
MOUNT, 3 IN. 50CAL. TWIN RF MK 33 MOD 7
MOUNT, 3 IN. 50CAL. TWIN RF MK 33 MOD 12
MOUNT, 3 IN. 50CAL. TWIN RF MK 33 MOD 13
MOUNT, 3 IN. 50CAL. TWIN RF MK 27 MOD 3
MOUNT, 3 IN. 50CAL. SINGLE SF MK 26 MOD 1
MOUNT, 3 IN. 50CAL. SINGLE SF MK 26 MOD 2
MOUNT, 3 IN. 50CAL. SINGLE SF MK 26 MOD 3
MOUNT, 3 IN. 50CAL. SINGLE SF MK 26 MOD 0
MOUNT, 3 IN. 50CAL. SINGLE SF MK 22 MOD 3
MOUNT, 3 IN. 50CAL. SINGLE SF MK 22 MOD 4
MOUNT, 3 IN. 50CAL. SINGLE SF MK 22 MOD 0
MOUNT, 3 IN. 50CAL. SINGLE SF MK 22 MOD 17

TABLE 1. (Sheet 9 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

LIGHTWEIGHT (ALUMINUM) MOUNTS

MOUNT, GUN 5 IN. 54CAL. RF MK 45 MOD 0

AA MACHINE GUNS

MOUNT, 40MM QUADR MK 2 MOD 5
MOUNT, 40MM QUADR MK 2 MOD 14
MOUNT, 40MM QUADR MK 2 MOD 18
MOUNT, 40MM QUADR MK 2 MOD 35
MOUNT, 40MM QUADR MK 2 MOD 39
MOUNT, 40MM TWIN MK 1 MOD 2
MOUNT, 40MM TWIN MK 1 MOD 6
MOUNT, 40MM SINGLE M3
MOUNT, 40MM SINGLE MK 3 MOD 0
MOUNT, 40MM SINGLE MK 3 MOD 4
MOUNT, 20MM SINGLE MK 4 MOD 0
MOUNT, 20MM SINGLE MK 4 MOD 1
MOUNT, 20MM SINGLE MK 4 MOD 2
MOUNT, 20MM TWIN MK 24 MOD 5
MOUNT, 20MM TWIN MK 24 MOD 6
MOUNT, 20MM SINGLE MK 10 MOD 1
MOUNT, 20MM SINGLE MK 10 MOD 4
MOUNT, 20MM SINGLE MK 10 MOD 0
MOUNT, 20MM SINGLE MK 10 MOD 17
MOUNT, 20MM SINGLE MK 10 MOD 16
MOUNT, 20MM SINGLE MK 10 MOD 23
MOUNT, 20MM SINGLE MK 10 MOD 29
MOUNT, 20MM SINGLE MK 10 MOD 32
MOUNT, 20MM SINGLE MK 51 MOD 0
MOUNT, 20MM SINGLE MK 16 MOD 4
MOUNT, 20MM SINGLE MK 16 MOD 5

GUN ROCKET LAUNCHERS

LAUNCHER, ROCKET (POWER) MK 102 MOD 0
LAUNCHER, ROCKET (POWER) MK 105 MOD 3
SYSTEM, LAUNCHING, ROCKET CHAFROC MK 28 MOD 0

SALUTING BATTERIES

40MM SALUTING BATTERY MK 11 MOD 0
40MM SALUTING BATTERY MK 11 MOD 1

TABLE 1. (Sheet 10 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN FIRE CONTROL SYSTEM (MAIN BATTERY) MK 34

DIRECTOR, GUN MK 34 MOD 8
DIRECTOR, GUN MK 34 MOD 10
DIRECTOR, GUN MK 34 MOD 16
DIRECTOR, GUN MK 34 MOD 17
DIRECTOR, GUN MK 34 MOD 18
EQUIPMENT, RADAR MK 13 MOD 0
RANGEKEEPER MK 8 MOD 53
RANGEKEEPER MK 8 MOD 56
RANGEKEEPER MK 8 MOD 59
COMPUTER MK 48 MOD 1
COMPUTER MK 3 MOD 6
DIRECTOR, GUN (STABLE VERTICAL) MK 41 MOD 0

SWITCHBOARD, FIRE CONTROL MK 18

SWITCHBOARD, FIRE CONTROL MK 18 MOD 0
SWITCHBOARD, FIRE CONTROL MK 18 MOD 1
SWITCHBOARD, FIRE CONTROL MK 18 MOD 2
SWITCHBOARD, FIRE CONTROL MK 18 MOD 3
SWITCHBOARD, FIRE CONTROL MK 18 MOD 4
SWITCHBOARD, FIRE CONTROL MK 18 MOD 5
SWITCHBOARD, FIRE CONTROL MK 18 MOD 6
SWITCHBOARD, FIRE CONTROL MK 18 MOD 7
SWITCHBOARD, FIRE CONTROL MK 18 MOD 8
SWITCHBOARD, FIRE CONTROL MK 18 MOD 9

GUN FIRE CONTROL SYSTEM MK 37

DIRECTOR, GUN MK 37 MOD 7 (ARMA)
DIRECTOR, GUN MK 37 MOD 8 (ARMA)
DIRECTOR, GUN MK 37 MOD 9 (ARMA)
DIRECTOR, GUN MK 37 MOD 10 (ARMA)
DIRECTOR, GUN MK 37 MOD 16 (GE)
DIRECTOR, GUN MK 37 MOD 17 (GE)
DIRECTOR, GUN MK 37 MOD 20 (GE)
DIRECTOR, GUN MK 37 MOD 21 (GE)
DIRECTOR, GUN MK 37 MOD 22 (ARMA)
DIRECTOR, GUN MK 37 MOD 26 (ARMA)
DIRECTOR, GUN MK 37 MOD 29 (GE)
DIRECTOR, GUN MK 37 MOD 30 (GE)
DIRECTOR, GUN MK 37 MOD 32 (ARMA)
DIRECTOR, GUN MK 37 MOD 36 (ARMA)
DIRECTOR, GUN MK 37 MOD 49 (GE)

TABLE 1. (Sheet 11 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN FIRE CONTROL SYSTEM MK 37 (CONT.)

DIRECTOR, GUN MK 37 MOD 50 (GE)
DIRECTOR, GUN MK 37 MOD 52 (ARMA)
DIRECTOR, GUN MK 37 MOD 53 (GE)
DIRECTOR, GUN MK 37 MOD 54 (ARMA)
DIRECTOR, GUN MK 37 MOD 62 (GE)
DIRECTOR, GUN MK 37 MOD 64 (GE)
DIRECTOR, GUN MK 37 MOD 66 (GE)
DIRECTOR, GUN MK 37 MOD 67 (GE)
DIRECTOR, GUN MK 37 MOD 79 (GE)
DIRECTOR, GUN MK 37 MOD 80 (GE)
DIRECTOR, GUN MK 37 MOD 91 (GE)
DIRECTOR, GUN MK 37 MOD 96 (GE)
DIRECTOR, GUN MK 37 MOD 103 (GE)
DIRECTOR, GUN MK 37 MOD 104 (GE)
DIRECTOR, GUN MK 37 MOD 108 (GE)
DIRECTOR, GUN MK 37 MOD 109 (GE)
DIRECTOR, GUN MK 37 MOD 110 (GE)
DIRECTOR, GUN MK 37 MOD 111 (GE)
EQUIPMENT, RADAR MK 25 MOD 2
EQUIPMENT, RADAR MK 25 MOD 3
EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 0
INITIAL VELOCITY YARD STICK UNIT XN-1
COMPUTER, STARSHELL MK 1 MODS
COMPUTER MK 1A MOD 8
COMPUTER MK 1A MOD 12
COMPUTER MK 1A MOD 13
ELEMENT, STABLE MK 6 MODS
AMPLIFIER MK 61 MODS 0,1
AMPLIFIER MK 61 MOD 2
TRANSMITTER, RELAY MK 57 MOD 0

SWITCHBOARD, FIRE CONTROL MK 11

SWITCHBOARD, FIRE CONTROL MK 11 MOD 0
SWITCHBOARD, FIRE CONTROL MK 11 MOD 1
SWITCHBOARD, FIRE CONTROL MK 11 MOD 2
SWITCHBOARD, FIRE CONTROL MK 11 MOD 3
SWITCHBOARD, FIRE CONTROL MK 11 MOD 4
SWITCHBOARD, FIRE CONTROL MK 11 MOD 5
SWITCHBOARD, FIRE CONTROL MK 11 MOD 6
SWITCHBOARD, FIRE CONTROL MK 11 MOD 7
SWITCHBOARD, FIRE CONTROL MK 11 MOD 8
SWITCHBOARD, FIRE CONTROL MK 11 MOD 9

TABLE 1. (Sheet 12 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

SWITCHBOARD, FIRE CONTROL MK 11

SWITCHBOARD, FIRE CONTROL MK 11 MOD 10
SWITCHBOARD, FIRE CONTROL MK 11 MOD 11
SWITCHBOARD, FIRE CONTROL MK 11 MOD 12
SWITCHBOARD, FIRE CONTROL MK 11 MOD 13
SWITCHBOARD, FIRE CONTROL MK 11 MOD 15
SWITCHBOARD, FIRE CONTROL MK 11 MOD 16
SWITCHBOARD, FIRE CONTROL MK 11 MOD 17
SWITCHBOARD, FIRE CONTROL MK 11 MOD 18
SWITCHBOARD, FIRE CONTROL MK 11 MOD 19
SWITCHBOARD, FIRE CONTROL MK 11 MOD 20
SWITCHBOARD, FIRE CONTROL MK 11 MOD 21
SWITCHBOARD, FIRE CONTROL MK 11 MOD 22
SWITCHBOARD, FIRE CONTROL MK 11 MOD 23
SWITCHBOARD, FIRE CONTROL MK 11 MOD 24
SWITCHBOARD, FIRE CONTROL MK 11 MOD 25
SWITCHBOARD, FIRE CONTROL MK 11 MOD 27
SWITCHBOARD, FIRE CONTROL MK 11 MOD 28
SWITCHBOARD, FIRE CONTROL MK 11 MOD 29
SWITCHBOARD, FIRE CONTROL MK 11 MOD 31
SWITCHBOARD, FIRE CONTROL MK 11 MOD 32
SWITCHBOARD, FIRE CONTROL MK 11 MOD 33

GUN FIRE CONTROL SYSTEM (MAIN BATTERY) MK 38

DIRECTOR, GUN MK 38 MODS 4, 5
DIRECTOR, GUN MK 40 MOD 1
EQUIPMENT, RADAR MK 13 MOD 0
RANGEKEEPER MK 8 MOD 58
COMPUTER MK 48 MOD 1
DIRECTOR, GUN (STABLE VERTICAL) MK 41 MOD 0

GUN FIRE CONTROL SYSTEM MK 51

DIRECTOR, GUN MK 51 MODS 1, 2
DIRECTOR, GUN MK 51 MOD 3
SIGHT, GUN MK 14 MOD 8
SIGHT, GUN MK 14 MOD 12
SIGHT, GUN MK 14 MOD 14
SIGHT, GUN MK 15 MOD 2
SIGHT, GUN MK 15 MOD 14
SIGHT, GUN MK 15 MOD 15
SIGHT, GUN MK 15 MOD 16

TABLE 1. (Sheet 13 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN FIRE CONTROL SYSTEM MK 51 (CONT.)

UNIT, AIR SUPPLY MK 1 MOD 1
UNIT, AIR SUPPLY (FOR GFCS MK 51 MODS 1,2 ONLY)
TRANSMITTER, WIND MK 4 MODS 3,4

GUN FIRE CONTROL SYSTEM MK 52

DIRECTOR, GUN MK 52 MOD 2
DIRECTOR, GUN MK 52 MOD 3
EQUIPMENT, RADAR MK 26 MOD 3
EQUIPMENT, RADAR MK 26 MOD 4
COMPUTER MK 6 MODS
COMPUTER MK 13 MOD 2
COMPUTER MK 13 MOD 3
SIGHT, GUN MK 15 MOD 3
SIGHT, GUN MK 15 MOD 14
SIGHT, GUN MK 15 MOD 15
UNIT, AIR SUPPLY MK 1 MOD 1
CORRECTOR, TRAIN PARALLAX MK 2 MODS 1,2
CORRECTOR, GUN ORDER MK 2 MODS 0,1
TRANSMITTER, WIND MK 4 MODS 3,4
AMPLIFIER, RANGE SERVO MK 20 MOD 0
AMPLIFIER, RANGE SERVO MK 20 MOD 1
AMPLIFIER, RANGE SERVO, MK 20 MOD 4

GUN FIRE CONTROL SYSTEM (MAIN BATTERY) MK 54

DIRECTOR, GUN MK 54 MODS 0,1
EQUIPMENT, RADAR MK 13 MOD 0
RANGEKEEPER MK 8 MOD 66
COMPUTER MK 1A MOD 15
COMPUTER MK 48 MOD 1
ELEMENT, STABLE MK 6 MODS
DIRECTOR, GUN (STABLE VERTICAL) MK 41 MOD 1

GUN FIRE CONTROL SYSTEM MK 56

DIRECTOR, GUN MK 56 MODS 3,6
DIRECTOR, GUN MK 56 MODS 7,8
EQUIPMENT, RADAR MK 35 MOD 2
EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 3
COMPUTER, STARSHELL MK 1 MODS
COMPUTER MK 1A MOD 13
COMPUTER MK 30 MOD 6

TABLE 1. (Sheet 14 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN FIRE CONTROL SYSTEM MK 56

COMPUTER MK 30 MOD 8
COMPUTER MK 30 MOD 9
COMPUTER MK 30 MOD 10
COMPUTER MK 30 MOD 11
COMPUTER MK 30 MOD 12
COMPUTER MK 30 MOD 15
COMPUTER MK 30 MOD 16
COMPUTER MK 30 MOD 17
COMPUTER MK 42 MODS 3, 3A
COMPUTER MK 42 MODS 5, 5A
COMPUTER MK 42 MOD 6
COMPUTER MK 42 MOD 8
COMPUTER MK 42 MOD 13
COMPUTER MK 42 MOD 15A
COMPUTER MK 42 MOD 17
COMPUTER MK 42 MOD 19
ELEMENT, STABLE MK 6 MODS
ELEMENT, STABLE MK 7 MODS 1, 3
ELEMENT, STABLE MK 7 MODS 4, 5
ELEMENT, STABLE MK 16 MOD 7
CORRECTOR, TRAIN PARALLAX MK 6 MOD 3
CORRECTOR, TRAIN PARALLAX MK 6 MOD 4
CORRECTOR, TRAIN PARALLAX MK 6 MOD 5
UNIT, TARGET DESIGNATION MK 1 MOD 0
UNIT, TARGET DESIGNATION MK 1 MOD 1
UNIT, TARGET DESIGNATION MK 1 MOD 2
UNIT, TARGET DESIGNATION MK 1 MOD 3
UNIT, TARGET DESIGNATION MK 1 MOD 4
UNIT, TARGET DESIGNATION MK 1 MOD 5
UNIT, TARGET DESIGNATION MK 1 MOD 6
TRANSMITTER, WIND MK 5 MOD 2
TRANSMITTER, WIND MK 5 MOD 3
TRANSMITTER, WIND MK 5 MOD 4
TRANSMITTER, WIND MK 5 MOD 5
CONSOLE MK 4 MOD 6
CONSOLE MK 4 MOD 7
CONSOLE MK 4 MODS 9, 17
CONSOLE MK 4 MODS 10, 18
CONSOLE MK 4 MOD 12
CONSOLE MK 4 MODS 13, 13A
CONSOLE MK 4 MOD 14
CONSOLE MK 4 MOD 15
CONSOLE MK 4 MOD 16

TABLE 1. (Sheet 15 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN FIRE CONTROL SYSTEM MK 56 (CONT.)

TRANSFORMER MK 19 MOD 0
TRANSFORMER MK 20 MOD 0
PANEL, CONTROL MK 23 MODS 2,3
PANEL, CONTROL MK 27 MOD 2
PANEL, CONTROL MK 27 MOD 9
PANEL, CONTROL MK 27 MOD 10
PANEL, CONTROL MK 28 MOD 6
PANEL, CONTROL MK 28 MOD 7
PANEL, CONTROL MK 28 MOD 9
PANEL, CONTROL MK 28 MOD 10
PANEL, CONTROL MK 28 MOD 12
PANEL, CONTROL MK 28 MOD 13
PANEL, CONTROL MK 28 MOD 14
PANEL, CONTROL MK 57 MOD 1
PANEL, CONTROL MK 57 MOD 4
PANEL, CONTROL MK 57 MOD 5
PANEL, CONTROL MK 57 MOD 6
GENERATOR SET, MOTOR UNIT 44
GENERATOR, MOTOR AMPLIDYNE (EL) UNIT 41
GENERATOR, MOTOR AMPLIDYNE (TRAIN) UNIT 42
SET, TEST MK 272 MOD 0

SWITCHBOARD, FIRE CONTROL MK 12

SWITCHBOARD, FIRE CONTROL MK 12 MOD 0
SWITCHBOARD, FIRE CONTROL MK 12 MOD 1
SWITCHBOARD, FIRE CONTROL MK 12 MOD 2
SWITCHBOARD, FIRE CONTROL MK 12 MOD 3
SWITCHBOARD, FIRE CONTROL MK 12 MOD 4
SWITCHBOARD, FIRE CONTROL MK 12 MOD 5
SWITCHBOARD, FIRE CONTROL MK 12 MOD 6
SWITCHBOARD, FIRE CONTROL MK 12 MOD 7
SWITCHBOARD, FIRE CONTROL MK 12 MOD 8
SWITCHBOARD, FIRE CONTROL MK 12 MOD 9
SWITCHBOARD, FIRE CONTROL MK 12 MOD 10
SWITCHBOARD, FIRE CONTROL MK 12 MOD 11
SWITCHBOARD, FIRE CONTROL MK 12 MOD 12
SWITCHBOARD, FIRE CONTROL MK 12 MOD 13
SWITCHBOARD, FIRE CONTROL MK 12 MOD 14
SWITCHBOARD, FIRE CONTROL MK 12 MOD 15
SWITCHBOARD, FIRE CONTROL MK 12 MOD 16
SWITCHBOARD, FIRE CONTROL MK 12 MOD 17
SWITCHBOARD, FIRE CONTROL MK 12 MOD 18

TABLE 1. (Sheet 16 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

SWITCHBOARD, FIRE CONTROL MK 12 (CONT.)

SWITCHBOARD, FIRE CONTROL MK 12 MOD 19
SWITCHBOARD, FIRE CONTROL MK 12 MOD 20
SWITCHBOARD, FIRE CONTROL MK 12 MOD 21
SWITCHBOARD, FIRE CONTROL MK 12 MOD 22
SWITCHBOARD, FIRE CONTROL MK 12 MOD 23
SWITCHBOARD, FIRE CONTROL MK 12 MOD 24
SWITCHBOARD, FIRE CONTROL MK 12 MOD 25
SWITCHBOARD, FIRE CONTROL MK 12 MOD 26
SWITCHBOARD, FIRE CONTROL MK 12 MOD 27
SWITCHBOARD, FIRE CONTROL MK 12 MOD 28
SWITCHBOARD, FIRE CONTROL MK 12 MOD 29
SWITCHBOARD, FIRE CONTROL MK 12 MOD 30
SWITCHBOARD, FIRE CONTROL MK 12 MOD 31
SWITCHBOARD, FIRE CONTROL MK 12 MOD 32
SWITCHBOARD, FIRE CONTROL MK 12 MOD 35
SWITCHBOARD, FIRE CONTROL MK 12 MOD 36
SWITCHBOARD, FIRE CONTROL MK 12 MOD 37
SWITCHBOARD, FIRE CONTROL MK 12 MOD 38
SWITCHBOARD, FIRE CONTROL MK 12 MOD 39
SWITCHBOARD, FIRE CONTROL MK 12 MOD 40
SWITCHBOARD, FIRE CONTROL MK 12 MOD 41
SWITCHBOARD, FIRE CONTROL MK 12 MOD 42
SWITCHBOARD, FIRE CONTROL MK 12 MOD 43
SWITCHBOARD, FIRE CONTROL MK 12 MOD 44
SWITCHBOARD, FIRE CONTROL MK 12 MOD 45
SWITCHBOARD, FIRE CONTROL MK 12 MOD 46
SWITCHBOARD, FIRE CONTROL MK 12 MOD 47
SWITCHBOARD, FIRE CONTROL MK 12 MOD 48
SWITCHBOARD, FIRE CONTROL MK 12 MOD 49
SWITCHBOARD, FIRE CONTROL MK 12 MOD 50
SWITCHBOARD, FIRE CONTROL MK 12 MOD 51
SWITCHBOARD, FIRE CONTROL MK 12 MOD 52
SWITCHBOARD, FIRE CONTROL MK 12 MOD 53
SWITCHBOARD, FIRE CONTROL MK 12 MOD 54
SWITCHBOARD, FIRE CONTROL MK 12 MOD 55
SWITCHBOARD, FIRE CONTROL MK 12 MOD 56
SWITCHBOARD, FIRE CONTROL MK 12 MOD 57
SWITCHBOARD, FIRE CONTROL MK 12 MOD 58
SWITCHBOARD, FIRE CONTROL MK 12 MOD 59
SWITCHBOARD, FIRE CONTROL MK 12 MOD 60
SWITCHBOARD, FIRE CONTROL MK 12 MOD 61
SWITCHBOARD, FIRE CONTROL MK 12 MOD 62
SWITCHBOARD, FIRE CONTROL MK 12 MOD 63

TABLE 1. (Sheet 17 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

SWITCHBOARD, FIRE CONTROL MK 12 (CONT.)

SWITCHBOARD, FIRE CONTROL MK 12 MOD 64
SWITCHBOARD, FIRE CONTROL MK 12 MOD 65
SWITCHBOARD, FIRE CONTROL MK 12 MOD 33
SWITCHBOARD, FIRE CONTROL MK 12 MOD 34
SWITCHBOARD, FIRE CONTROL MK 12 MOD 66
SWITCHBOARD, FIRE CONTROL MK 12 MOD 67
SWITCHBOARD, FIRE CONTROL MK 12 MOD 68
SWITCHBOARD, FIRE CONTROL MK 12 MOD 69
SWITCHBOARD, FIRE CONTROL MK 12 MOD 70
SWITCHBOARD, FIRE CONTROL MK 12 MOD 71
SWITCHBOARD, FIRE CONTROL MK 12 MOD 72
SWITCHBOARD, FIRE CONTROL MK 12 MOD 73
SWITCHBOARD, FIRE CONTROL MK 12 MOD 74
SWITCHBOARD, FIRE CONTROL MK 12 MOD 75
SWITCHBOARD, FIRE CONTROL MK 12 MOD 76
SWITCHBOARD, FIRE CONTROL MK 12 MOD 77
SWITCHBOARD, FIRE CONTROL MK 12 MOD 78
SWITCHBOARD, FIRE CONTROL MK 12 MOD 79
SWITCHBOARD, FIRE CONTROL MK 12 MOD 80
SWITCHBOARD, FIRE CONTROL MK 12 MOD 81
SWITCHBOARD, FIRE CONTROL MK 12 MOD 82
SWITCHBOARD, FIRE CONTROL MK 12 MOD 83

GUN FIRE CONTROL SYSTEM MK 57

DIRECTOR, GUN MK 57 MOD 2
DIRECTOR, GUN MK 57 MOD 3
DIRECTOR, GUN MK 57 MOD 4
DIRECTOR, GUN MK 57 MOD 5
EQUIPMENT, RADAR MK 34 MODS 4,11
EQUIPMENT, RADAR MK 39 MOD 3
COMPUTER MK 16 MOD 1
COMPUTER MK 17 MOD 1
COMPUTER MK 17 MOD 2
UNIT, AIR SUPPLY MK 1 MOD 1
CORRECTOR, TRAIN PARALLAX MK 5 MODS
CORRECTOR, GUN ORDER MK 3 MODS
TRANSMITTER, WIND MK 4 MOD 4
AMPLIFIER MK 1 MOD 1
AMPLIFIER MK 1 MOD 3
AMPLIFIER MK 10 MOD 0
AMPLIFIER MK 37 MOD 0

TABLE 1. (Sheet 18 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN FIRE CONTROL SYSTEM MK 57 (CONT.)

TRANSMITTER, RELAY MK 13 MODS 0-7
SUPPLY, POWER MK 4 MOD 1

GUN FIRE CONTROL SYSTEM MK 63

DIRECTOR, GUN MK 51 MOD 6
PEDESTAL, DIRECTOR MK 1 MODS 0-3
EQUIPMENT, RADAR MK 34 MOD 16
EQUIPMENT, RADAR MK 34 MOD 17
SET, RADAR AN/SPG-34
SET, RADAR AN/SPG-50
MOUNT, RADAR ANTENNA MK 19 MOD 6
MOUNT, RADAR ANTENNA MK 25 MODS 0,1,4,6
COMPUTER MK 6 MODS
COMPUTER MK 6 MOD 25
ELEMENT, STABLE MK 7 MODS 4,5
ELEMENT, STABLE MK 16 MOD 8
SIGHT, GUN MK 15 MOD 12
SIGHT, GUN MK 15 MOD 23
SIGHT, GUN MK 29 MODS 0,1
SIGHT, GUN MK 29 MOD 4
UNIT, AIR SUPPLY MK 1 MOD 1
CORRECTOR, TRAIN PARALLAX MK 5 MODS
CORRECTOR, GUN ORDER MK 2 MOD 0
CORRECTOR, GUN ORDER MK 3 MODS
TRANSMITTER, WIND MK 4 MOD 4
INDICATOR, CROSS LEVEL, MK 88 MOD 0
AMPLIFIER MK 2 MOD 0
AMPLIFIER MK 4 MOD 1
AMPLIFIER MK 10 MOD 0
AMPLIFIER MK 10 MOD 1
AMPLIFIER, CONSOLE MK 22 MOD 0
AMPLIFIER, CONSOLE MK 22 MOD 1
AMPLIFIER MK 37 MODS 0,1
TRANSMITTER, RELAY, MK 13 MODS 0-7
TRANSMITTER, ANTENNA CONTROL MK 59 MOD 0
CONVERTER MK 6 MODS 3-4
RECEIVER, RANGE MK 4 MOD 2
INDICATOR, HORIZON MK 1 MOD 2
UNIT, TARGET ACQUISITION MK 2 MOD 2

TABLE 1. (Sheet 19 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

GUN FIRE CONTROL SYSTEM MK 67

DIRECTOR, GUN MK 67 MODS 0, A
DIRECTOR, GUN MK 67 MOD C
EQUIPMENT, RADAR MK 25 MOD 5
EQUIPMENT, RADAR SIGNAL PROCESSING MK 1 MOD 4
COMPUTER, STARSHELL MK 1 MODS
COMPUTER MK 47 MOD 3
COMPUTER MK 47 MOD 4
ELEMENT, STABLE MK 10 MOD A
ELEMENT, STABLE MK 16 MOD 5
DRIVE, DIRECTOR CONTROL MK 1 MOD 0
DRIVE, DIRECTOR CONTROL MK 1 MOD C
TESTER, DYNAMIC MK 2 MOD 1
RECORDER, ERROR MK 7 MODS 0, 1

SWITCHBOARD, FIRE CONTROL MK 13

SWITCHBOARD, FIRE CONTROL MK 13 MOD 0
SWITCHBOARD, FIRE CONTROL MK 13 MOD 1
SWITCHBOARD, FIRE CONTROL MK 13 MOD 2
SWITCHBOARD, FIRE CONTROL MK 13 MOD 3
SWITCHBOARD, FIRE CONTROL MK 13 MOD 4
SWITCHBOARD, FIRE CONTROL MK 13 MOD 5
SWITCHBOARD, FIRE CONTROL MK 13 MOD 6
SWITCHBOARD, FIRE CONTROL MK 13 MOD 7
SWITCHBOARD, FIRE CONTROL MK 13 MOD 8
SWITCHBOARD, FIRE CONTROL MK 13 MOD 9

AMMO HANDLING EQUIPMENT

5 INCH AMMO HOIST, AUTOMATIC DREDGER TYPE
ROTATING READY SERVICE RACK, 5/38 CAL GUN
3 INCH AMMO HOIST, AUTOMATIC DREDGER TYPE
CRANE, BRIDGE, MANUAL
CRANE, BRIDGE, AIR, FOR BI-RAIL HOIST
ELEVATOR-SASS-LOWER STAGE, ELECTRO MECH
HATCH, BALLISTIC-SASS ELEVATOR-LOWER STAGE, 2ND DECK
POWER UNIT, HYD,–FOR UPPER STAGE AUX ELEV. (SASS)
HOIST, BI RAIL (AIR POWERED) FOR SASS
TROLLEY-SASS (C)
CRANE, BRIDGE, MANUAL, SASS
ELEVATOR, ELECTRO-MECHANICAL, WEAPON/CARGO ELEVATOR

TABLE 1. (Sheet 20 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

AMMO HANDLING EQUIPMENT (CONT.)

ELEVATOR, ELMCH, AMMO HNDL SMALL ARMS
ELEVATOR, ELMCH-ROCKET
ELEVATOR, AMMUNITION
ELEVATOR, ELMCH, ACFT AMMO HNDL (LOWER STAGE)
ELEVATOR, ELMCH, ACFT AMMO HNDL (UPPER STAGE)
HOIST, CHAIN (ELECTRIC)
HOIST, ROPE, WIRE-1000LB. (ELECTRIC)
HOIST, ROPE, WIRE-2000LB. (ELECTRIC)
HOIST, AMMO, ELEC MECH, AUTO DREDGER TYPE
DUMBWAITERS, SASS
WINCH, ELEC MTRDN, WIRE ROPE-ACFT AMMO
ELEVATOR, ELMCH, AMMO HNDL-BOMB (LOWER STAGE)
ELEVATOR, ELMCH, AMMO HNDL-BOMB (UPPER STAGE)
ELEVATOR, ELMCH, AMMO HNDL-MISSILE
HOIST, PNEUMATIC PSTN-PRTL
HOIST, ELEC, DC, WIRE ROPE-AMMO HNDL

TRAINING EQUIPMENT

MACHINE, 5 IN. LOADING MK 17 MOD 0
MACHINE, 5 IN. LOADING MK 14 MOD 0
MACHINE, 5 IN. LOADING MK 14 MOD 4
MACHINE, 5 IN. LOADING MK 14 MOD 7
MACHINE, 5 IN. LOADING MK 15 MOD 0
MACHINE, 5 IN. LOADING MK 15 MOD 1
MACHINE, 5 IN. LOADING MK 15 MOD 2
MACHINE, 5 IN. LOADING MK 15 MOD 3
MACHINE, 5 IN. LOADING MK 16 MOD 0
MACHINE, 5 IN. LOADING MK 16 MOD 2
MACHINE, 5 IN. LOADING MK 16 MOD 3
MACHINE, 3 IN. LOADING RF MK 7 MOD 1
MACHINE, 3 IN. LOADING RF MK 7 MOD 2
MACHINE, 3 IN. LOADING RF MK 7 MOD 3
MACHINE, 3 IN. LOADING RF MK 10 MOD 0
MACHINE, 3 IN. LOADING RF MK 10 MOD 1
MACHINE, 3 IN. LOADING RF MK 7 MOD 0
MACHINE, 40MM LOADING SINGLE MK 2 MOD 0
MACHINE, 40MM LOADING TWIN MK 3 MOD 1

SURFACE WARFARE SYSTEM TEST EQUIPMENT

UNIT, HYDRAULIC FILTER, MODEL RP-1-XB
DIRECTOR, DUMMY MK 1 MOD 3

TABLE 1. (Sheet 21 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

SURFACE WARFARE SYSTEM TEST EQUIPMENT (CONT.)

RECORDER, ERROR MK 1 MOD 3
DIRECTOR, DUMMY MK 1 MOD 5
TESTER, SYNCHRO MK 1 MOD 0
CHRONOGRAPH MK 1 MOD 0

MISCELLANEOUS FIRE CONTROL EQUIPMENT

INDICATOR, DIRECTOR TRAIN MK 10 MOD 0
INDICATOR, TRAIN MK 55 MOD 0
INDICATOR, ELEVATION MK 66 MOD 0
INDICATOR, TRAIN (MULTIPLE TURRET) MK 58 MOD 0
INDICATOR, TRAIN (MULTIPLE TURRET) MK 11 MODS
INDICATOR, TRAIN (MULTIPLE TURRET) MK 12 MODS
INDICATOR, MULTIPLE DIRECTOR TRAIN MK 1 MODS 1,2
INDICATOR, MULTIPLE DIRECTOR TRAIN MK 2 MOD 0
ELEMENT, STABLE MK 5 MODS
UNIT, CONTROL MK 47 MOD 1
UNIT, CONTROL MK 48 MOD 2
INDICATOR, BEARING MK 6 MODS
INDICATOR, BEARING AND RANGE MK 7 MODS
RANGEFINDER MK 11 MOD 18
RANGEFINDER MK 14 MOD 1
RANGEFINDER MK 21 MODS
RANGEFINDER MK 28 MODS
RANGEFINDER MK 51 MODS
RANGEFINDER MK 57 MODS
RANGEFINDER MK 63 MOD 0
RANGEFINDER MK 65 MOD 0
INDICATOR, BEARING AND RANGE MK 10 MOD 0
INDICATOR, BEARING MK 22 MODS
INDICATOR, ELEVATION MK 54 MOD 0
INDICATOR, ELEVATION MK 65 MODS 0,1
INDICATOR, GUN ELEVATION MK 63 MOD 0
INDICATOR, DIRECTOR TRAIN MK 12 MOD 0
TRANSMITTER, TRAIN, TURRET MK 13 MOD 0
INDICATOR, BEARING AND RANGE MK 1 MODS
INDICATOR, BEARING AND RANGE MK 5 MODS
INDICATOR, RANGE MK 2 MODS 0-9
INDICATOR, DIRECTOR ELEVATION MK 6 MOD 2
INDICATOR, ELEVATION MK 50 MOD 0
INDICATOR, RANGE MK 31 MOD 11
INDICATOR, RANGE MK 4 MOD 0
INDICATOR, RANGE MK 11 MODS

TABLE 1. (Sheet 22 of 23)

ORDNANCE (CONT.)

GUN SYSTEMS (CONT.)

MISCELLANEOUS FIRE CONTROL EQUIPMENT (CONT.)

INDICATOR, RANGE MK 12 MOD 0
INDICATOR, BEARING MK 10 MODS
INDICATOR, BEARING MK 5 MODS
INDICATOR, BEARING MK 11 MODS
INDICATOR, BEARING MK 16 MODS
INDICATOR, BEARING MK 7 MODS
INDICATOR, CROSS LEVEL MK 88 MOD 0
INDICATOR, BEARING MK 2 MODS
INDICATOR, RANGE MK 5 MODS 0,1
INDICATOR, RANGE MK 5 MODS 4-11
INDICATOR, RANGE MK 6 MODS
PERISCOPE MK 36 MOD 0
MOUNT, PERISCOPE MK 10 MODS 0,3
TRAINER, STEREO MK 2 MODS
TRAINER, STEREO MK 3 MODS
TRAINER, STEREO MK 5 MODS
TRAINER, STEREO MK 6 MODS
TRANSMITTER, TRAIN MK 9 MOD 4
TRANSMITTER, TRAIN MK 10 MODS 0,4
TRANSMITTER, RELAY MK 26 MOD 1
TRANSMITTER, RANGE MK 10 MODS
TRANSMITTER, GUN ORDER RELAY MK 3 MOD 0
TRANSMITTER, SIGHT ANGLE AND DEFLECTION MK 4 MOD 0
TRANSMITTER, RANGE MK 12 MODS
TRANSMITTER, RELAY MK 32 MOD 3
TRANSMITTER, BATTLE ORDER MK 29 MOD 0
TRANSMITTER, BATTLE ORDER MK 31 MOD 0
RECEIVER, RANGE MK 4 MOD 2
TRANSMITTER/RECVR TARGET DESIG. MK 1 MOD 33
TRANSMITTER/RECVR TARGET DESIG. MK 3 MODS 172,173
TRANSMITTER/RECVR TARGET DESIG. MK 7 MOD 4
TRANSMITTER/RECVR TARGET DESIG. MK 10 MODS
RECEIVER, TARGET BEARING MK 2 MODS
CLOCK, TIME OF FLIGHT MK 1 MODS
CLOCK, TIME OF FLIGHT MK 2 MODS

AMMO STOWAGE

MAGAZINES
MOUNT AMMO STOWAGE AREAS
PASSAGEWAY STOWAGE AREAS
READY SERVICE ROOMS

TABLE 1. (Sheet 23 of 23)

ORDNANCE (CONT.)

- GUN SYSTEMS (CONT.)
  - AMMO STOWAGE (CONT.)
    - IMMEDIATE SERVICE AMMO BOXES
    - ASSOCIATED EQUIPMENT
  - GUN FIRE CONTROL SYSTEM CHECKOUT EQUIPMENT
    - PORTABLE TEST GEAR
    - FIXED TEST GEAR
    - MONITORING SYSTEMS
    - CALIBRATION EQUIPMENT
  - OPERATING FLUIDS
    - FIRE CONTROL SYSTEM
    - ARMAMENT
  - REPAIR PARTS & SPECIAL TOOLS
    - FIRE CONTROL SYSTEM
    - ARMAMENT